



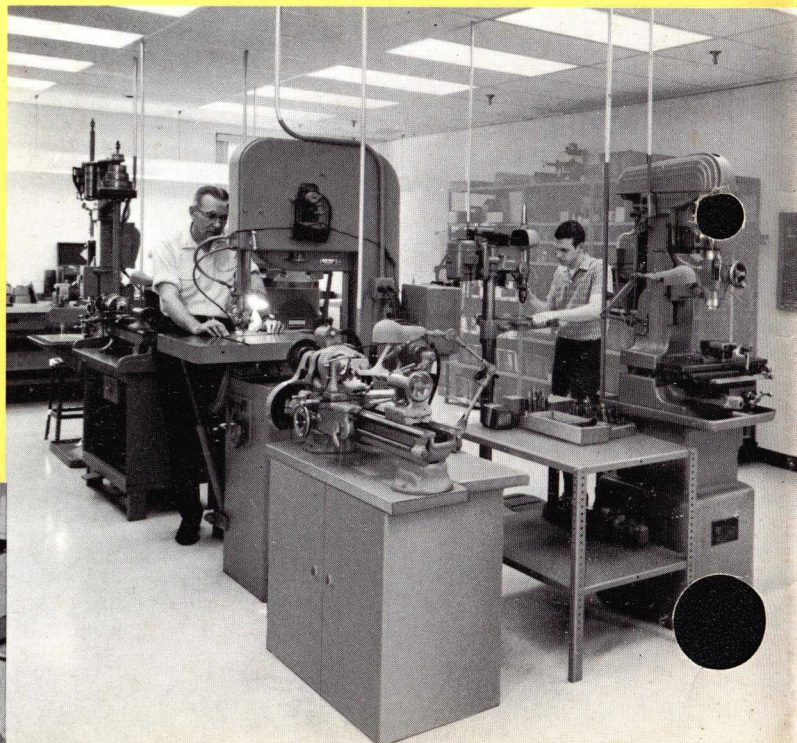
General Catalog
K-D TOOLS
No. 69



K-D celebrates its 50th anniversary in a new, completely air-conditioned plant located in the Lancaster Industrial Park. An all-one-level structure, the plant is especially suited to the "flow-through" concept. No wasted time or movement—raw materials come in at one end of the plant, finished products emerge at the other.

For Research, Development and testing purposes, K-D maintains a fully equipped service bay. It is, in fact, an Official Penna. Inspection Station. Here, K-D tools get a real workout; and only the ones that "do the job"—time after time—get to the field testing stage.

K-D's Research and Development is manned by a staff of highly trained engineers and designers. Their job is to develop prototypes and test all new K-D tools.



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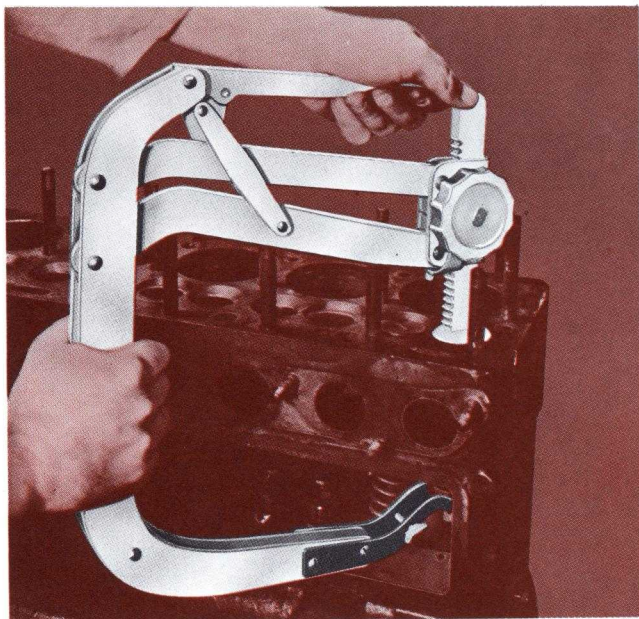
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VALVE SPRING COMPRESSORS

VALVE



380

Ideal for general shop. Services all modern V-8 valve-in-head engines, older L-heads, plus many truck, bus, and tractors.

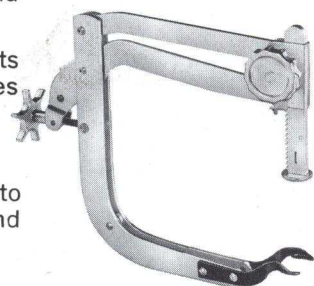
Throat depth 9-3/4".
Jaw opening 2-3/4"—7-3/4".
Adjustable Jaws and adjustable Plunger Bar. Plunger Bar seats on both flat and cup shaped valve heads.
Nos. 32 Offset.
35 Straight Jaws furnished.



382

For L-head and valve-in-head engines, old or new.

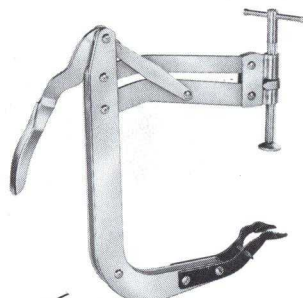
Wide range of adjustments are possible. Tool services valves of all lengths.
Throat depth 9-1/2".
Jaw opening 2-1/8"—11".
Possible on many engines to span manifold, remove and replace valves without changing working position.
Nos. 32 Offset, 35 Straight Jaws furnished.



383

Designed to service modern V-8 valve-in-head engines. Location of Operating Handle makes tool fast, easy to use.

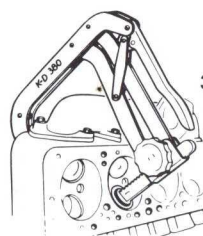
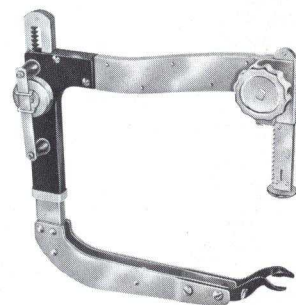
Will service many smaller L-head engines if manifolds removed.
Throat depth 7-1/2".
Jaw opening 2-1/4"—7-1/16".
No. 32 Offset Jaws furnished.



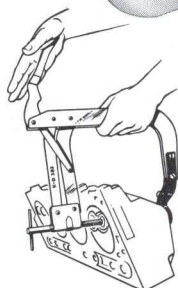
325

One man operation on most engines with manifolds in place. Flexible adjustments permit servicing all length valves.

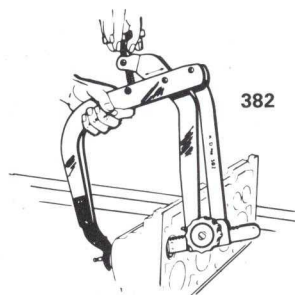
Throat depth 12".
Jaw opening 2-3/4"—12-1/2".
Nos. 32, 35, 38 Jaws furnished.



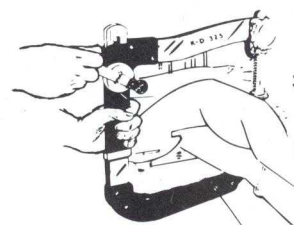
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383



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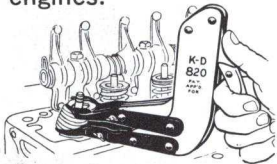


325

820 . . . Valve Spring Compressor

For replacing valve springs (heads on or off) without removing rocker arm assemblies.

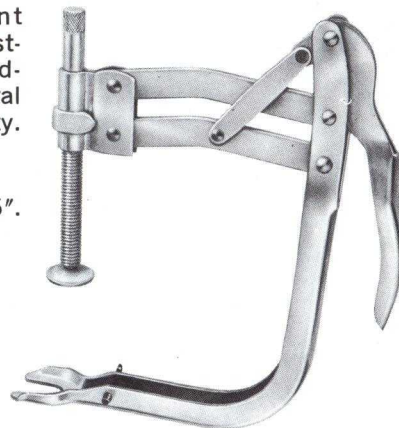
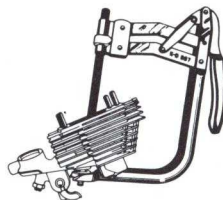
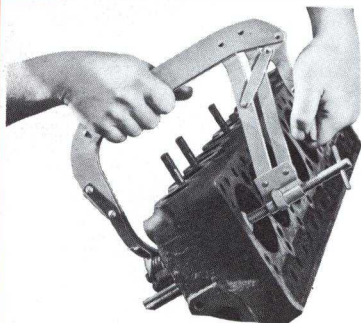
Can be used on most all valve-in-head engines.

**887 . . . Valve Spring Compressor**

Meets government specifications. Adjustable plunger and adjustable jaws integral with frame for rigidity. Throat depth 5".

Jaw opening

2"—5-7/16".

**385****Valve Spring Compressor**

For only very small valve-in-heads or L-heads with **light weight valve springs**. Services early Buick, Chevrolet, Wisconsin Motors (VE4, VF4, AB, Ak single cyl.) plus many industrials. Suitable for L-heads if manifolds removed.

Throat depth 6-1/4", Jaw opening 3"—5-3/8".

700 . . . Valve Spring Lifter

For deep set L-heads, over or under fenders. Ideal for all Chrysler-built L-heads, also Ford 6, 1948-52 incl., many small, foreign L-heads.

Screw-type Lifter, provides clear view of valve. Automatic locking any height. Adjustable Jaws.



U.S. PAT. NO. 2,533,121

600 . . . Valve Spring Lifter

For practically all L-head motors. Parallel Jaw action. Fast scissors-type Lifter for automotive, industrial, marine motors where operation in a horizontal position is possible. Ratchet Lock Release, and adjustable Jaws.

**379 . . . Compressor Set
B & S, Clinton, and Kohler**

Consists of 376 Insertter and 378 Compressor. No. 378 has Operating Handle at rear for more convenient operation.

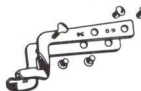
**Compressor Jaws**

For 325, 380, 383, 382 Compressors. Oil tempered, adjustable.



32 Offset Jaws.

35 Straight Jaws.



36 Special High Offset

Jaws for hard to reach valves where other jaws strike.

38 Extra Hi-Offset. For use on motors with low manifolds.



38W Jaws for White motors. Same as No. 38 but altered to prevent striking block.

39 Jaws for International Engine #450. Same as No. 38 but altered to accommodate special valve spring washer.

VALVE SPRING COMPRESSORS

For Removing and Replacing occasional weak or broken valve springs

907

Renault 4 Cylinder Over Head Valve Spring Compressor

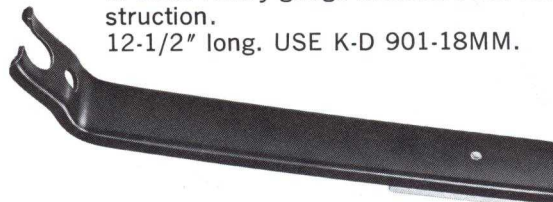
Remove push rod and insert loop end of tool under rocker arm. Apply pressure to compress spring. Uses K-D 901-14MM and 18MM Air Hold.



912

Chevrolet, Pontiac, 8 Cylinder Valve Spring Compressor

Serves Pontiac and Chevrolet, 1955 to date. Heavy gauge channel steel construction. 12-1/2" long. USE K-D 901-18MM.



908

Jeep 6 Cylinder Valve Spring Compressor

Slot in handle of tool is designed for attaching adjustable wrench for additional leverage. Uses K-D 901-14MM Air Hold.



914

Chevrolet Low Cab Forward Truck Valve Spring Compressor

Works under cab and clears exhaust manifold. Heavy bar steel. 11-1/2" long. USE K-D 901-18MM.



909

Rambler 6 & 8 Cylinder . . . Jeep 8 Cylinder Valve Spring Compressor

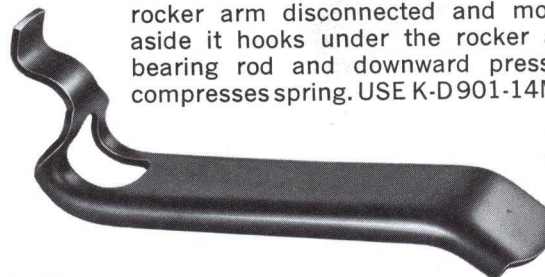
Slot in handle of tool designed for attaching adjustable wrench for additional leverage. Uses K-D 901-14MM Air Hold.



915

Ford Overhead Valve Spring Compressor

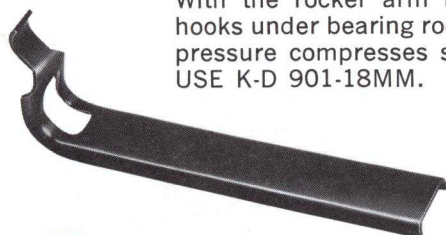
Also handles Olds 1949 to date. With rocker arm disconnected and moved aside it hooks under the rocker arm bearing rod and downward pressure compresses spring. USE K-D 901-14MM.



910

Chevrolet 6 Cylinder Valve Spring Compressor

With the rocker arm moved aside, it hooks under bearing rod and downward pressure compresses spring. USE K-D 901-18MM.



916

Ford 6 Cylinder Valve Spring Compressor

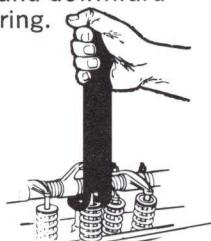
Slide rocker arm side ways and insert curved end under rocker arm shaft. Pressure is applied to compress spring. Uses K-D 901-14MM and 18MM Air Hold.



901

Air Hold Set

Fits spark plug holes 14MM and 18MM. Threaded to take standard air hose coupling. Used to apply air pressure to valve heads and keep them closed while servicing single valves.



Valve Keeper Inserters

605



For split keepers with O.D. not less than 7/16", I.D. or valve stem diam. not greater than 3/8".

Easy loading, fast operating. Pressing pads on Handles open Jaw Springs to load.

607

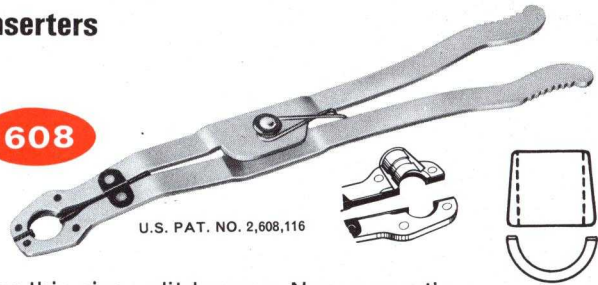
Magnetic



For this size split keeper only (used in most later model L-head engines).

Keepers are automatically aligned on permanent Jaw Magnets. Long and thin for Chrysler-built and Ford-built.

608



U.S. PAT. NO. 2,608,116

For this size split keeper. Non-magnetic.

Special spring steel fingers on Jaws automatically align keepers for valve stem.

609

Magnetic

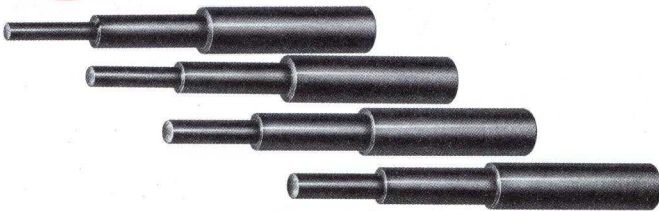


For split collar-type keepers used on rotating, free-type valves.

Specially designed for Ford trucks with free-type valves, also services Massey-Harris "Pony" and Allis-Chalmers Model "G" Tractors.

812

Valve Guide Driver Set



Serves 90% of cars and small trucks

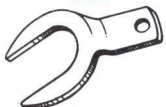
- 814** Pilot diam. 5/16". Body diam. .485".
- 815** Pilot diam. 11/32". Body diam. .552".
- 816** Pilot diam. 3/8". Body diam. .615".
- 817** Pilot diam. 7/16". Body diam. .675".

Packaged in plastic kit. Precision machined for accurate fit. Each 6-3/4" long.

Drivers may be purchased separately.

922

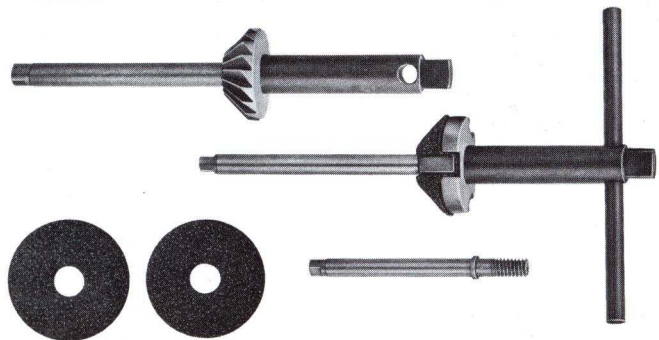
Replacement Valve Guide Retainers



Fit Ford V-8, Mercury, Ford 4 & 6 cyl., Ford Tractor. Boxed per 100 (plated only). Also available in bulk, plated or unplated. 3000 up.

2097

Valve Seat Reseaters



For small engines having 45° valve seats 5/8" to 1-1/4" diameters.

Reseat both intake and exhaust valve seats.

Set consists of an 1-1/4"—45° Abrasive Cutter with coarse abrasive (for hard exhaust seats), one dozen Abrasives (6 coarse & 6 fine), also an 1-3/16"—45° Solid Type Cutter (used on the intake cast iron seats), two studs, one each 1/4", 9/32" and 5/16" Pilots & one Handle, in Cardboard box.

245

Bar Type Valve Spring Lifter



Pulls guide assemblies down for replacement of retainers.

For Ford V-8 and Mercury, 1934 to 1953. Chrome vanadium steel, "girder" constructed jaws, identical at each end. Correctly designed, tempered, rustproofed. 30" long.



K-D VACUUM CUP VALVE GRINDERS

For hand grinding flat head, unslotted valves. Synthetic rubber Vacuum Cups are impervious to oil, grease, gasoline, atmospheric conditions. Made with thin walls for greater suction, and are replaceable.



501 . . . Dual Cup Grinder

Cup diameters 5/8" and 13/16" for small valves. High impact plastic handle.



503 . . . Grinder

For valves with head diam. of 1-1/2". Equipped with 1-3/8" diam. Cup. Metal Retaining Ring prevents Cup from slipping off center. Retaining Ring I.D. 1-9/16". Metal handle flange keeps hands in place.



505 . . . Dual Cup Grinder

Cups 1-1/8" and 1-3/8" diam. for many valve sizes.

505BF Like 505, with 15/16" and 1-1/16" diam. Cups. For small motors and industrial engines.

510G Like 505, with 13/16" and 1-1/16" diam. Cups. For 1" and 1-1/4" diam. valve heads.



506 . . . Grinder

Popular, low priced. Cup 1-3/8" diam.

506BF Like 506 with 15/16" diam. Cup. For British Ford, other small motors.

Adaptors for Mechanical Valve Grinders



For use on flat head, unslotted valves. Synthetic rubber cups.

504 Cup diam. 1-3/8". Metal Retaining Ring prevents Cup slipping off center while grinding.

507 Cup only, 1-3/8" diam.

508G Cup only, 13/16" diam. For 1" diam. valves.

509 Cup only, 1-1/8" diam.



Replacement Cups for Valve Grinders



Synthetic rubber, diam.: 13/16", 15/16", 1-1/16", 1-1/8", 1-3/8". 501 Series 5/8" and 13/16" diam.

Note . . . Be sure to specify diam. when ordering.

2093 All-In-One Expansion Valve Guide Cleaner

Covers all sizes; 5/16", 11/32", 3/8", 7/16", 1/2", 9/16" and 5/8".

Use with a 1/4" electric drill to clean the carbon from the guide.

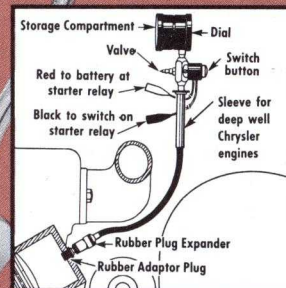
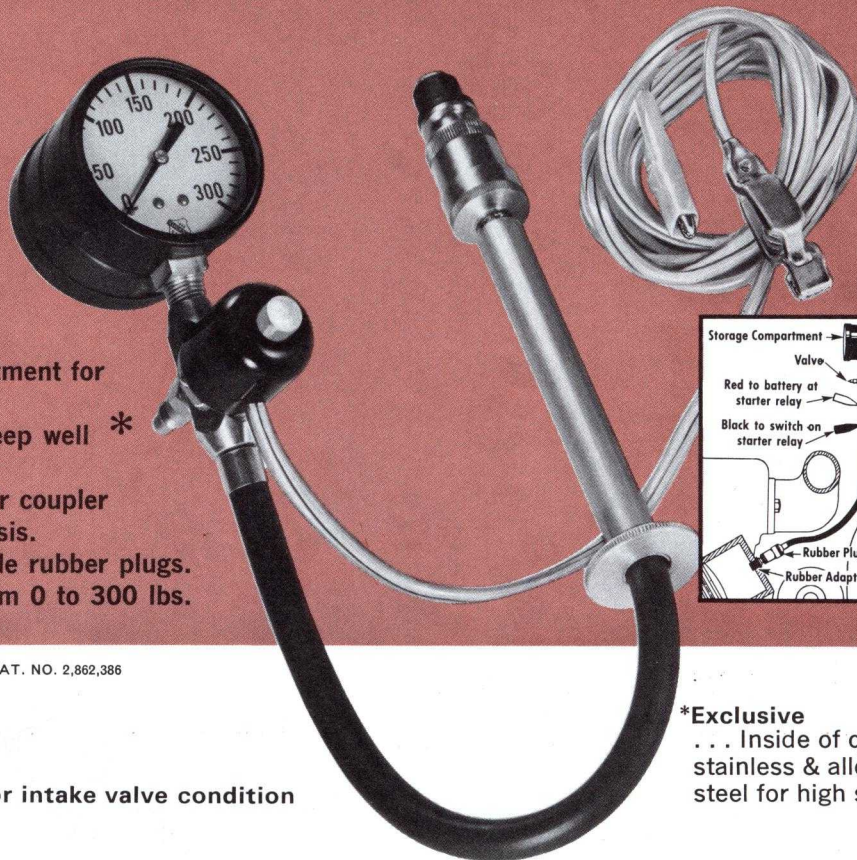
May be used to clean and remove dirt or rust and burnish any corroded surfaces of holes within the range of 5/16" to 5/8". Parts are easily replaceable if necessary.



K-D Combination Compression Gauge and Cylinder Leakage Tester

No. 149

- Remote control
- Storage compartment for adaptor plugs.
- Extension for deep well spark plugs. *
- Connector for air coupler for engine analysis.
- 3 interchangeable rubber plugs.
- Gauge reads from 0 to 300 lbs.



*Exclusive Reverse
Flow Action Analyses:
Cylinder wall condition
Detects worn rings
Detects faulty exhaust or intake valve condition

U.S. PAT. NO. 2,862,386

*Exclusive
... Inside of cylinder made of
stainless & alloy heat treated
steel for high strength.

K-D No. 148 "Custom" Compression Gauge. Same as above, less remote control.

124 Heavy Duty Remote Control Starter Switch



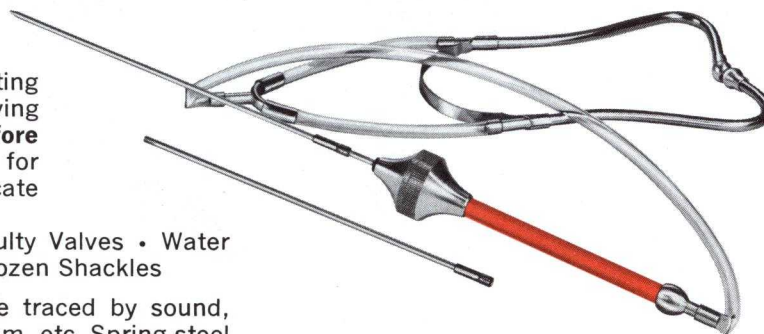
For any engine with solenoid starter switch. Allows one man to control engine when making various adjustments and repairs. Can be taken apart, cleaned and re-assembled. Lifetime guarantee against mechanical failure.

835 Mechanic's Stethoscope with Shockproof Handle

A fast, accurate method of locating troubles in engines and other moving parts. Uncovers trouble areas **before** major damage. Probe uncouples for convenient lengths. Can easily locate and identify—

• Piston Slap • Worn Gears • Faulty Valves • Water Pump Failure • Worn Gaskets • Frozen Shackles

Effective whenever trouble can be traced by sound, such as flow of water, oil, gas, steam, etc. Spring steel diaphragm for long accurate use.



851 "Long-Life" Piston Ring Compressor

Compressor Pliers With 1 Most Popular Band (3-3/8" to 3-5/8")

The most efficient versatile and dependable tool of its kind on the market. Designed to operate both vertically and horizontally. Fine tooth ratcheting lock permits bands to be contracted in extremely small increments.

**850 Piston Ring Compressor Set**

Complete—includes pliers and 6 bands covering a range of 2-7/8" to 4-3/8". Packaged in strong reinforced carton.

852 VOLKSWAGEN

Piston Ring Compressor Set
Metric . . . 75MM to 83MM
Thousandth's . . . 2.952 to 3.267

Used without removing head studs. The compressor ring can be removed easily after cylinder is slipped over rings.

853 CORVAIR

Piston Ring Compressor Set 3-3/8" to 3-5/8"

Same features and characteristics as Volkswagen piston ring compressor set.

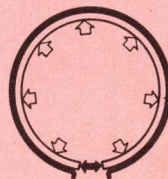
850H Piston Ring Compressor Pliers
(No bands included)**Standard Piston Ring Bands Available**

No.	Size	No.	Size
850BX1	1-7/8" to 2-3/8"	850B10	5-1/8" to 5-3/8"
850BX2	2-1/8" to 2-3/8"	850B11	5-3/8" to 5-5/8"
850BX3	2-3/8" to 2-5/8"	850B12	5-5/8" to 5-7/8"
850BX4	2-5/8" to 2-7/8"	850BC (CORVAIR)	3-3/8" to 3-5/8"
850B1	2-7/8" to 3-1/8"		
850B2	3-1/8" to 3-3/8"	850BVW	7MM to 83MM
850B3	3-3/8" to 3-5/8"		
850B4	3-5/8" to 3-7/8"	Special Bands For Slant Block Engines	
850B5	3-7/8" to 4-1/8"		
850B6	4-1/8" to 4-3/8"	850CS	4-3/8" to 4-5/8"
850B7	4-3/8" to 4-5/8"	850BS	4-1/8" to 4-3/8"
850B8	4-5/8" to 4-7/8"		
850B9	4-7/8" to 5-1/8"		

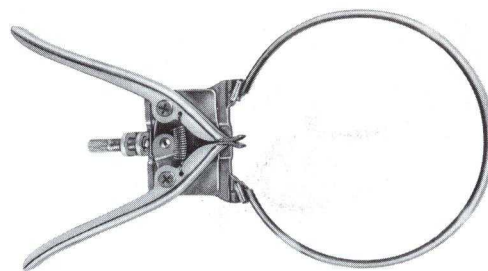
Prevent Distortion With K-D PISTON RING Expanders and Adapters

K-D Piston Ring Tools apply the only correct mechanical principle to expand piston rings without strain or distortion.

Each Adapter will service ONLY its corresponding ring size, and the Expander can be used ONLY with the Adapter.

The K-D Principle Prevents Distortion

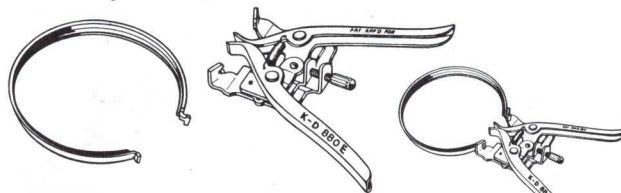
Pressure is applied to the ring ends by the Expander Jaws (black arrow). Ring expansion is equalized (white arrows) by the Adapter and distortion prevented.



U.S. PAT. NO. 3,048,918

881 Piston Ring Expander

One 880E and one 4" Adapter.

**880 Piston Ring Expander Set**

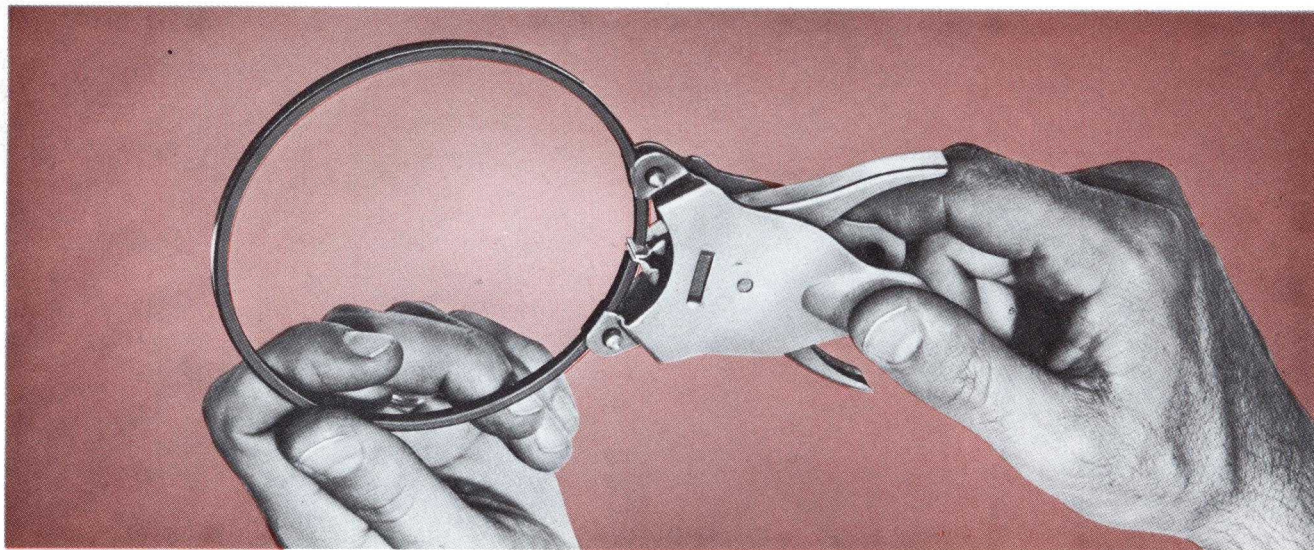
This set will handle 80% of all cars and trucks. One 880E and Adapters sizes 3-7/16", 3-1/2", 3-9/16", 3-5/8", 3-3/4", and 4" in sturdy fibre board storage box.

880E Expander Only, No Adapters

Will handle all ADAPTERS, sizes 1-1/2" to 5" as they become available. Adapters snap into slots in the Expander, handles adjust to ring size. Expander should not be used without correct size Adapter. Complete instructions.

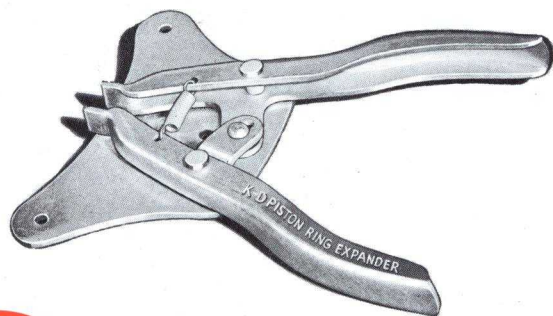
Adapters For 880E

3" • 3-1/4" • 3-3/8" • 3-7/16" • 3-1/2" • 3-9/16"
3-5/8" • 3-3/4" • 4" • 4-1/8" • 4.3" . . . Ring size clearly marked on each Adapter.



875 Piston Ringer . . . Small Rings

A pocket-size tool to remove, install rings up to 4". Light, strong, dependable. Ring gripped as shown, is expanded when handles are compressed.



890 Expander Only, No Adapters

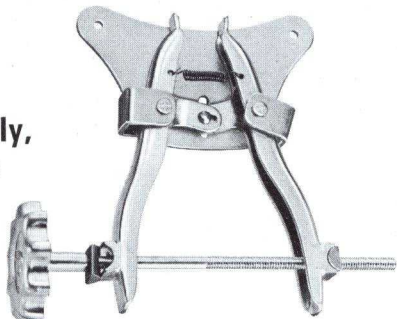
For ring sizes 5" to 10-7/8", to order. Adapters available in a range of sizes from 5" to 10-7/8".

891 Expander Only, No Adapters

For ring sizes 11" to 13-7/8", to order. Adapters available in a range of sizes from 11" to 13-7/8".

892

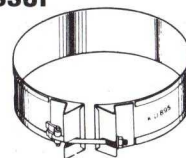
Expander Only,
No Adapters



For ring sizes 14" to 17-1/2", to order. Adapters available in a range of sizes from 14" to 17-1/2".

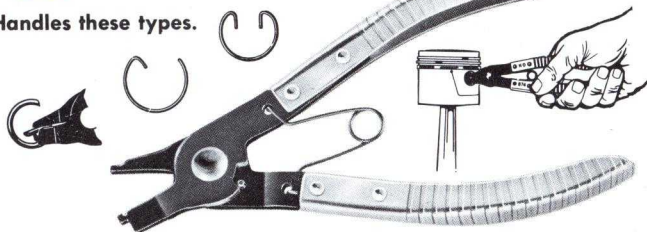
895 Piston Ring Compressor

For 8-1/8" rings. Made to meet U. S. Government specifications. Other sizes available on special order.



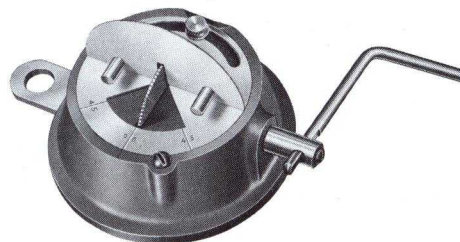
874 Piston Pin Lock Pliers

Handles these types.



The easy way to remove and install all sizes of piston pin locking rings without distorting or losing them. Slight twist brings them out, the reverse reinstalls them.

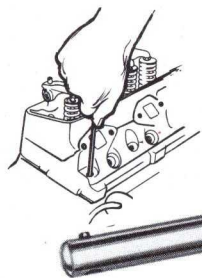
870 Piston Ring Filer



A portable, rotary Filer. Sizes any make, type, size of ring with machine shop accuracy. Ring is held against calibrated gage plate. Turning crank files both ends at same time.

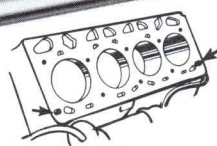
872 Cutter File

For No. 870. Select tool steel, maximum sharpness.



480 Head and Gasket Aligning Tool

Consists of two 7/16" Aligning Buttons, two 1/2" Aligning Buttons and a Pulling Rod. The Buttons are higher than the aligning pins installed at the factory and are sure to pilot perfect alignment.



Aligning Buttons are placed in head bolt holes, one at one end of the block, the other at the opposite end. Gasket is put into place, is automatically located and held in proper position on the Buttons.

ENGINE

485 Gasket Scraper



Scrapes mating surfaces clean before installing new gaskets on: Water Pumps • Thermostat Housings • Cylinder Heads • Crankcase • Timing Chain Cover, etc.

475 Crankcase Gasket Pliers



For slant Sixes, VALIANT, DART, LANCER, PLYMOUTH. Impossible to install the rubber gasket at front of the crankcase without this tool. Jaws are properly angled, knurled and heat-treated. 7-1/8"-long.

Cylinder Ridge Reamers

2101 Deluxe Set as illustrated

Contains two sets of three blades with strips to ream 2-9/16" to 3-3/4" and 3-3/4" to 4-7/8", one set of three filler strips and operating knob in metal box.

For most cars, trucks and tractors. Supporting blade strips mounted on the blades adjust with the blades so that it is not necessary to remove the head studs from the block. Supporting blade strips are held firmly against the top of the cylinder block by pressing down on the knob. Impossible to overcut or leave a step or shoulder in the cylinder wall.

2101-1

Set contains one set of three blades with strips, cutting range 2-9/16" to 3-3/4", one set of three filler strips and operating knob.

2101-2

Set contains one set of three blades with strips, cutting range 3" to 4-3/16", one set of three filler strips and operating knob.

2102 Set for small bore engines

Contains one set of three blades with strips, cutting range 2-3/16" to 3-3/16", one set of three filler strips and operating knob.

All Kits in Metal Box

No. 2101



2103 Truck, Tractor and Bus Size

Set contains one set of three blades with strips, cutting range 4-7/8" to 6-7/16", one set of 3 filler strips and operating knob.

2104 Small Engine Cylinder Ridge Reamer

Will remove the unworn ridge in cylinders with diameters from 2" to 3".

Rocker Arm Stud Extracting & Installing Set

Does the job **faster** and **easier** than present methods. A real professional set of equipment. Designed and built to last for many years of rugged and dependable service. Consists of the following:

Set **706** Consists of:

705 Rocker Arm Stud Puller

- Accommodates 3/8" and 7/16" studs. Puller screws for other size studs available on request.
- Ball bearing thrust washer reduces friction.
- Hex key furnished to install puller on studs.
- No. 66 K-D Ratchet Wrench can be used to turn nut.

704 Adjustable Stud Installing Tool

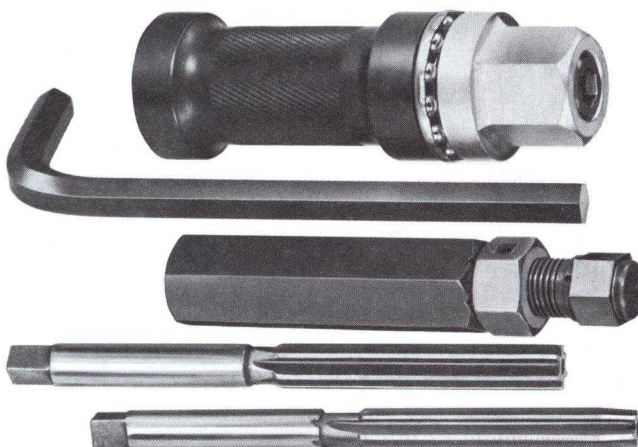
- Avoids guessing height of studs when installing.
- Works on 3/8" and 7/16" studs.

703 7/16" Reamer

702 3/8" Reamer

Special Reamers for Oversize Studs

Conditions hole for installing oversize studs.



Available Separately

No. 704 Adjustable Stud Installing Tool

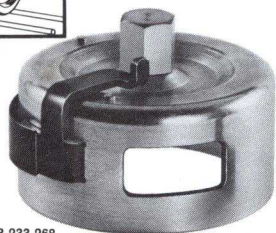
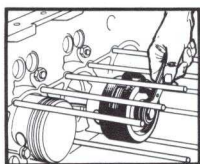
No. 705 Rocker Arm Stud Puller

No. 702 Special 3/8" Reamer

No. 703 Special 7/16" Reamer

707

... **Puller Screw**—for the #705 Rocker Arm Stud Puller—to take care of studs with 5/16" threads, on 1959-62 Pontiacs. Packaged in Envelope.



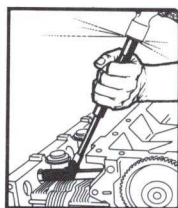
U.S. PAT. NO. 3,233,268

2000 Piston Ring Groove Cleaner

Exclusive: The **only** Groove Cleaner available that cleans **without removing Pistons and Studs**.

- Cleans all 3 grooves at same time.
- Extra set of cutters included for narrow grooves in '65 models to date.

"Special" Corvair Tools

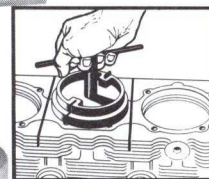
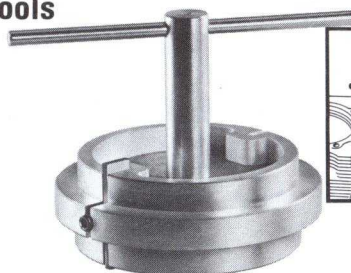


U.S. PAT. NO. 3,171,193

2001 Push Rod Tube Remover

Breaks loose the oil seal at each end of tubes where engine heat causes seals to bake fast. A real must when engine work requires removing push rod tubes.

- Will not damage tubes.
- Place tool over tube at cylinder head and strike with hammer.

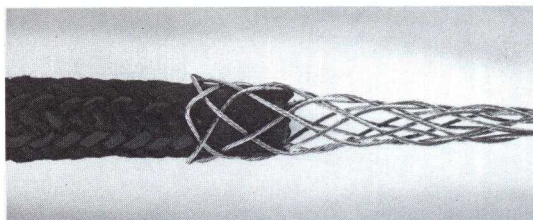


2002 Cylinder Head Resurfacing Tool

Remachines cylinder head seats—eliminating need for replacing cylinder head. Works on **all** models.

- Lowest priced resurfacing tool available.
- Simple design—easy to use.
- Cutter made of high speed steel.

K-D Upper Rear Main Oil Seal Installer/Remover for both Wick and Neoprene Seals



Positive grip "chinese finger"

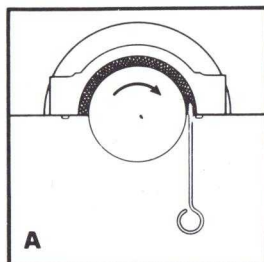
492

- Eliminates removal of engine or crankshaft.
- Saves as much as 2 hours per job.
- Handles both Wick (packing) and Neoprene Molded Seals.
- Positive grip on Wick, can't slip.

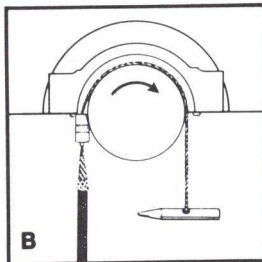
This versatile tool offers a maximum of speed and safety. Correctly designed components remove and install all rear main oil seals.

2033 Installer Only (Part No. 2)

Removal of Wick



Installation of Wick



U.S. PAT. NO. 3,029,503

1. Wick Seal Remover
2. Installer
3. Guide Funnel(s)
4. Pusher
5. Offset Trimmer
6. Neoprene Seal Punches

50

Volkswagen Clutch Adjusting Set



Reversible ratchet wrenches designed especially for adjusting V.W. clutch.

The short wrench has an 11 MM hex head for fitting over and holding the lock nut. The larger wrench with a 14 MM hex head adjusts the clutch.

51

Volkswagen Double End Ratchet Wrench



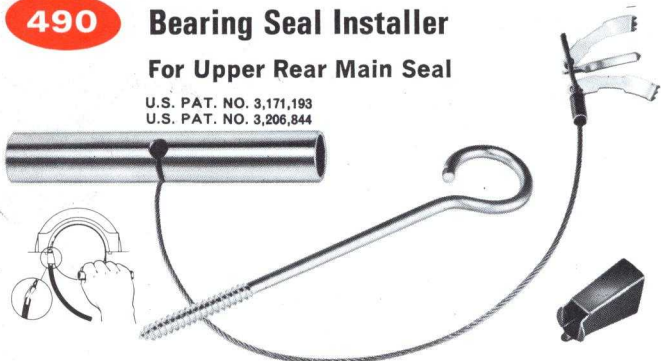
21 MM Hex Head essential for taking off the generator pulley nut.

Also used to turn engine over in valve tappet adjustment and setting timing.

17 MM Hex Head essential size for engine mounting bolts.

490 Bearing Seal Installer For Upper Rear Main Seal

U.S. PAT. NO. 3,171,193
U.S. PAT. NO. 3,206,844



"Fingers" hold the seal in a firm, positive grip. The release **assures** proper installation on the very first try—**prevents** pulling too far by controlling the distance required to pull the seal through the channel. When the seal reaches the proper distance the gripping "fingers" automatically release. Special tool for removing old seals is also included in the set along with complete instructions.

177 Cylinder Head Holder

U.S. PAT. NO. 2,991,994



Holds all sizes of cylinder heads in any position for cleaning and valve servicing. Perfectly balanced. Heads bolt to support brackets. T-handle locks brackets at any angle. Legs adjustable on base for any length of head. Completely portable, can be used anywhere in the shop.

175 Cylinder Head Holder Only

176 Base for Cylinder Head Holder Only

75 Wrench Set



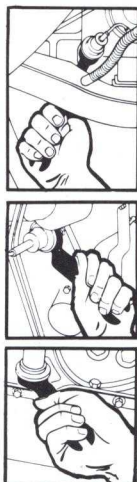
No. 73

No. 74

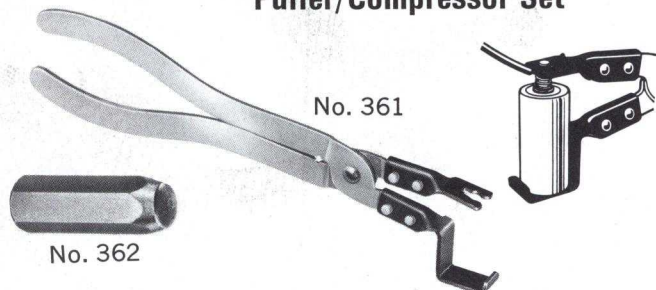
No. 73 Wrench—for removing and installing Ford Throttle Valves Vacuum Control Diaphragm.

No. 74 Wrench—for removing and installing Chevrolet Modulator.

Both wrenches of special offset shape for working in confined area.



360 Briggs and Stratton Puller/Compressor Set



No. 361

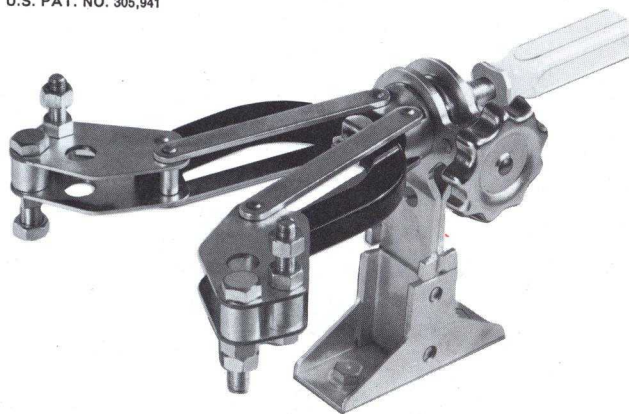
No. 362

Set consists of K-D No. 361 Fly Wheel Puller and K-D No. 362 Condenser Spring Compressor. The No. 361 is placed over the end of the crankshaft and tapped lightly with a hammer—**freeing** the Fly Wheel from the crankshaft. The No. 362 holds the spring in a compressed position on the condenser allowing **removal** or **installation** of the primary wire.

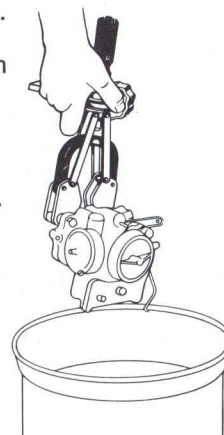
170 Universal Carburetor Stand

Adjustable to hold all makes of carburetors.

U.S. PAT. NO. 305,941



- Services all makes and models of Automotive Carburetors.
- Adjustable for hole center distance.
- Can be locked in any position.
- Carburetor attached to holder can easily be removed intact, and carried from work bench to cleaning vat.
- Makes carburetor repair and adjustment easier, more profitable.
- Can be rotated 360 degrees.



K-D FILTER WRENCHES

190 Universal Oil Filter Wrench



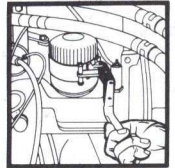
For removing all disposable oil filters, cars and trucks. Positive friction grip with enough leverage to exceed normal requirements. WILL NOT PUNCTURE OR CRUSH filter. Operates in close quarters. FOR TIGHT PLACES, disassemble band at bolt, wrap around filter, reassemble with bolt and proceed.

Won't Slip, Puncture or Crush!

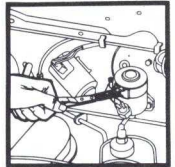
191 Oil Filter & Brake Cylinder Wrench



Removing Oil Filter



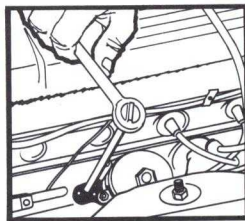
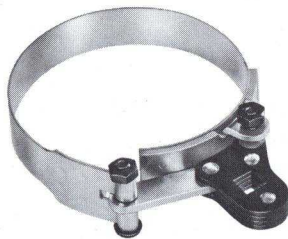
Removing Adaptor



Removes bleeder adaptor from master cylinder reservoir on all Fords since 1960 (except disc brakes). Removes Oil Filters—Renault, Volvo, Opel.

2029 Oil Filter Wrench

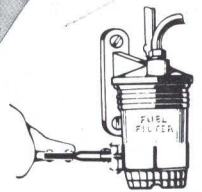
For those tough to get at places
Removes practically all (spin-on type) filters



Used with 3/8" square drive extension and 3/8" square drive ratchet wrench.

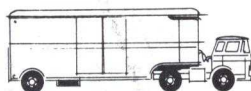
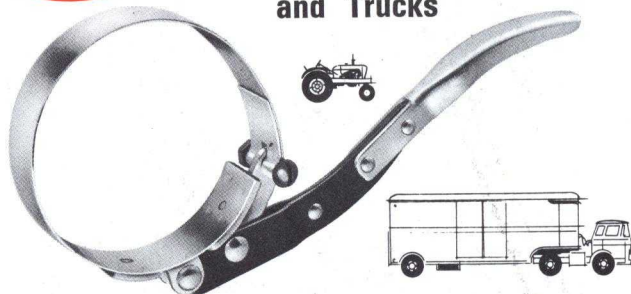
Designed and built to the same high standards as the popular #190 with the added feature of accessibility to extremely tight areas such as on the 67 Pontiac and Chrysler 6.

192 Fuel Filter Remover and Installer



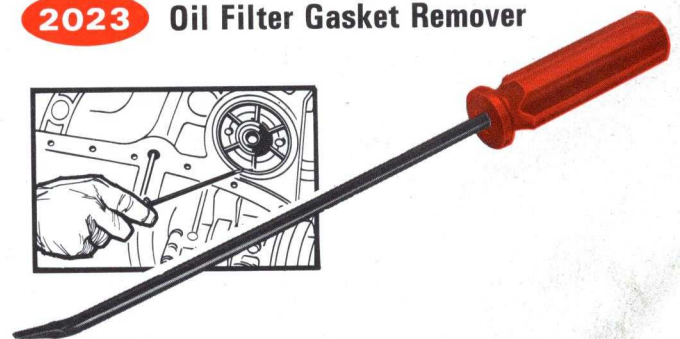
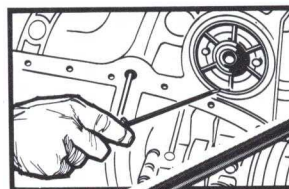
Designed for the new replaceable cartridge-type gasoline filters to prevent crushing of filter case when replacing the cartridge.

2010 Oil Filter Wrench for Tractors and Trucks



Ford and Allis Chalmers Tractors and all Tractors and Trucks with Oil Filters (Spin-on-type) 4" to 4-3/8" in Diameter.

2023 Oil Filter Gasket Remover



For all Chevrolets with V-8 engines 1955 to date. Sharp chisel end, reaches into narrow gasket groove to remove "baked on" Gasket.

Universal Hydraulic Brake Bleeder System and Fluid Dispenser Tank

255 Brake Bleeder Set

Light weight easy to use one gallon tank, fills and bleeds brakes in a single operation on both standard and power brake systems. Carrying handle also serves as dipstick—with hook for hanging over jobs.

Comes Equipped With . . .

- 3 Ft. Neoprene Hose with Quick Acting Coupler
- Large Universal Adapter
- Small Universal Adapter
- GMC Recessed Master Cylinder
- Ford Recessed Master Cylinder Adapter
- Chrysler Recessed Master Cylinder Adapter
- Bleeder Hose
- 2 Quick Coupler Fittings



256 Tank with Large (255B) and Small (255A) Universal Adapters

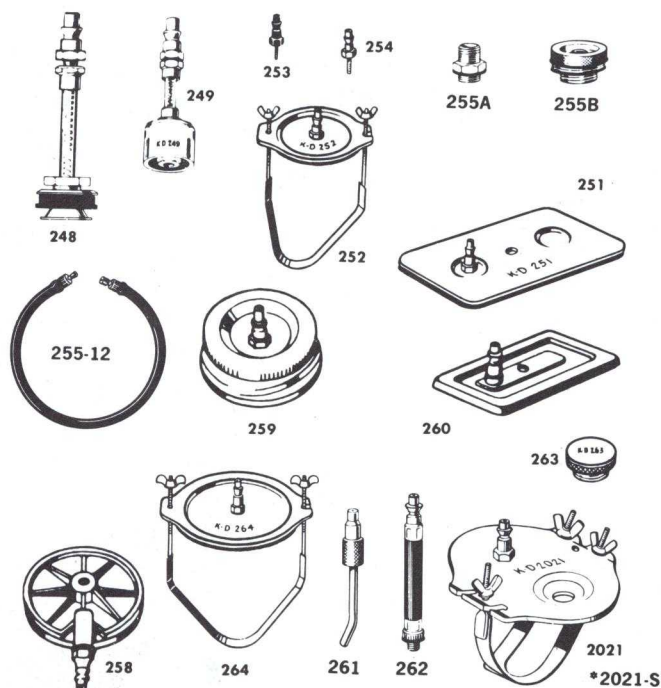
257 Adapter Set

(#260) GMC and CHEVROLET TRUCK. (#259) FORD and (#258) CHRYSLER Recessed Adapters

Use #258 Chrysler Adapter Plate on 62-63 Chevrolet

2032 One Gallon Tank

Bleeder Adapters Available for All Types of Brakes



- 248 V-W Adapter, 1961 and earlier, and most trucks
- 249 V-W Adapter, 1962 to date
- 251 STUDEBAKER, RAMBLER & CADILLAC Adapter, 1963 to date
- 252 G-M Adapter (except Cadillac) 1964 to date
- 253 CESSNA Aircraft Adapter, 5/32"
- 254 PIPER Aircraft Adapter, 3/16"
- 255A Adapter, pipe thread 3/4"-18
- 255B Adapter, pipe threads 1-1/4"-18 and 1-5/8"-18
- 255-12 Bleeder Hose
- 258 CHRYSLER-BUILT Adapter
- 259 FORD-BUILT Adapter
- 260 GMC-BUILT Adapter
- 261 Master Cylinder Filler Attachment
- 262 Short Universal Hose
- 263 CADILLAC and RAMBLER, Vent Cap
- 264 DISC BRAKE Adapter, Lincoln, T-bird, Mustang, GM-BUILT
- 2021 BENDIX and DELCO duals, and master cylinders on Ford-built and GM-built
- *2021-S Special Band for Corvette and Chrysler Cars equipped with Disc Brakes and Dual Master Cylinders—Order separately.

BRAKE BLEEDER ADAPTER CHART

AUTOMOBILE NAME	YEAR AND ADAPTER No.																	
	1950	1951	1952	1953	1954	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967-69
BUICK	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	258	258	252	E	E	2021
BUICK SPCL.	—	—	—	—	—	—	—	—	—	—	—	255-B	258	258	252	252	252	2021
CADILLAC	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	A	A	251	251	251	2021
COMET	—	—	—	—	—	—	—	—	—	—	259	259	259	259	259	G	259	2021
CHEVROLET	255-A	255-A	255-A	255-A	255-A	255-B	255-B	255-B	255-B	255-B	255-B	255-B	258	258	252	252	252	2021
CHRYSLER	255-B	255-B	255-B	255-B	255-B	258	258	258	258	258	258	258	258	258	258	258	258	K
CORVAIR	—	—	—	—	—	—	—	—	—	—	255-B	255-B	258	258	252	252	252	2021
CORVETTE	—	—	—	—	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	258	252	F	I	2021
DODGE—All	255-B	255-B	255-B	255-B	255-B	258	258	258	258	258	258	258	258	258	258	258	258	K
DESOTO	255-B	255-B	255-B	255-B	255-B	258	258	258	258	258	—	—	—	—	—	—	—	—
FALCON	—	—	—	—	—	—	—	—	—	—	259	259	259	259	259	G	259	2021
FORD	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	259	259	259	259	259	G	259	2021
F-85	—	—	—	—	—	—	—	—	—	—	—	258	258	258	252	252	E	2021
HUDSON	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	—	—	—	—	—	—	—	—	—	—
JEEP	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	J	251
LINCOLN	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	259	259	259	259	259	264	264	2021
MERCURY—All	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	259	259	259	259	259	G	G	2021
MUSTANG	—	—	—	—	—	—	—	—	—	—	—	—	—	—	259	G	G	2021
OLDSMOBILE	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	258	258	252	E	E	2021
PACKARD	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	—	—	—	—	—	—	—	—	—
PLYMOUTH	255-B	255-B	255-B	255-B	255-B	258	258	258	258	258	258	258	258	258	258	258	258	K
PONTIAC	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	258	258	252	E	E	2021
RAMBLER	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	C	A	251	251	251	251	K
SCOUT	—	—	—	—	—	—	—	—	—	—	H	H	H	H	H	H	H	251
STUDEBAKER	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	255-B	251	D	D	D	—
TEMPEST	—	—	—	—	—	—	—	—	—	—	—	255-B	258	258	252	252	252	2021
THUNDERBIRD	—	—	—	—	—	255-B	255-B	255-B	255-B	255-B	259	259	259	259	259	264	264	2021
TORONADO	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	E	E	2021
VALIANT	—	—	—	—	—	—	—	—	—	—	258	258	258	258	258	258	258	K
VW SEDAN	248	248	248	248	248	248	248	248	248	248	248	249	249	249	249	249	249	249
VW BUS	248	248	248	248	248	248	248	248	B	B	B	B	B	B	B	B	B	B

A—Two Adapters Required No. S. 255-B and 263.
 B—Not Available.
 C—Rambler American only, Use 255-B. Others Use 259.
 D—Studebakers with Disc Brakes Use No. 258 Except Challenger.
 Challenger Use No. 255-B.
 Studebakers with Standard Brakes Use No. 251.
 E—Bendix Brakes Use No. 259. Delco Brakes Use No. 252.

F—Power Brakes Use No. 255-B.
 Without Power Brakes Use No. 264.
 G—Standard Brakes Use No. 259.
 Disc Brakes Use No. 264.
 H—With Mechanical Clutch Use 259.
 With Hydraulic Clutch Use 260.

I—Use 255-B and 263 on Power Brakes.
 Use 264 Standard Brakes.
 J—Power Brakes Use 259.
 Without Power Brakes Use 255-B.
 K—Use No. 251 on Standard Brakes.
 Use No. 2021 on Disc Brakes.

2024 Brake Bleeder and Flare Nut Wrench for Volkswagen



11MM Open end for the nut on brake lines.
 7MM Closed end fits the Brake Bleeder.

281 Brake Bleeder Wrench for English Ford and Volvo



1/4" to adjust brakes. • 7/16" to bleed brakes.

274 Disc Brake Piston Pliers



Serrated teeth on jaws firmly grip inside of the Disc Brake Piston, allowing a twisting-pulling action to remove the piston without slipping. Caliper must be removed from car, but **does not** have to be taken apart.



288

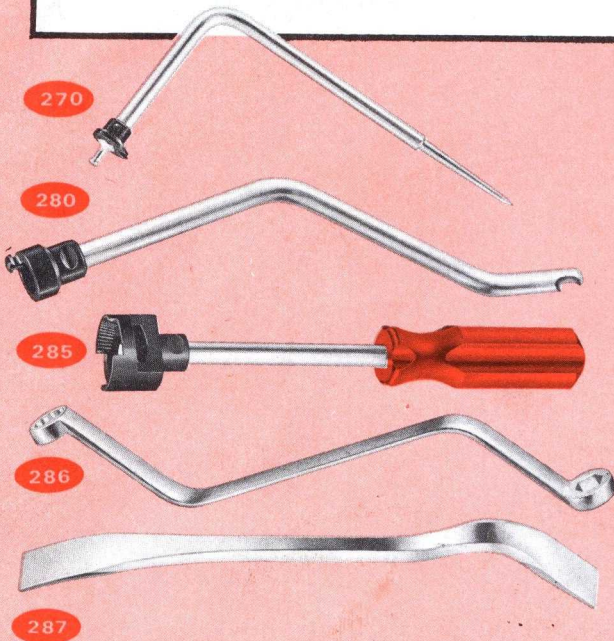
Brake Tool Kits



289

No. 270 . . . Brake Shoe Spring Tool for Lockheed, total contact
 No. 280 . . . Brake Shoe Spring Tool for Bendix
 No. 285 . . . Shoe Retaining Spring Tool for Bendix
 No. 286 . . . High Offset Brake Wrench 3/8" and 7/16"
 No. 287 . . . Brake Adjusting Tool

No. 291 . . . High Offset Brake Wrench 1/4" and 3/8"
 No. 292 . . . Chrysler Hand Brake Adjusting Tool
 No. 293 . . . "C" Washer Pliers for Lockheed
 No. 294 . . . Brake Piston Puller for Lockheed
 No. 295 . . . Brake Adjusting Tool, Corvair and Ford line



290

Master Brake Tool Kit Assortment of 10 Tools required to service LOCKHEED, BENDIX and TOTAL CONTACT Brakes. Made up of the 288 and the 289 Brake Tool Kits.

282

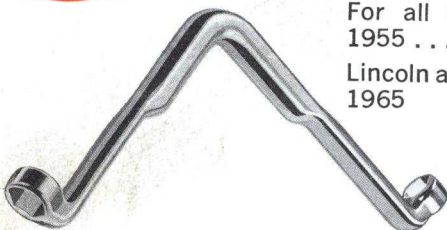
Truck Brake Adjuster



For trucks with Mechanically Adjustable Brakes.

283

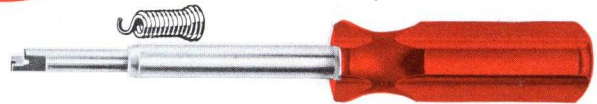
Brake Bleeder Wrench



For all GM Cars since 1955 . . .
 Lincoln and Thunderbird 1965

297

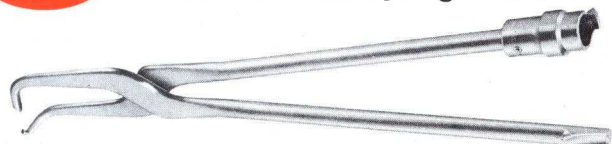
Brake Shoe Retaining Spring Tool



For COMET • FALCON • VALIANT & Others using this type spring.

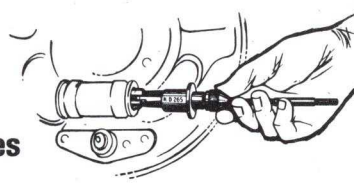
298

Universal Brake Spring Pliers



And special socket for Bendix Lockheed Brakes

Brake Cylinder Hones



Unique design prevents stones from going through straight bore or double end cylinder.



265

Hones all Masters, and Wheel Cylinders straight bore or blind end.

Full range (3/4" to 2-3/4")

266

Replacement stones (3 stones per set)—fit all popular brake cylinder hones. (Nos. 265 & 267)

267

Volkswagen Brake Cylinder Hone

For V.W.'s and all cars with Brake Cylinders from 5/8" to 1" in diameter.



2003

Disc Brake Cylinder Hone

Fits most Disc Brake Cylinders.

2004

Replacement Stones for No. 2003

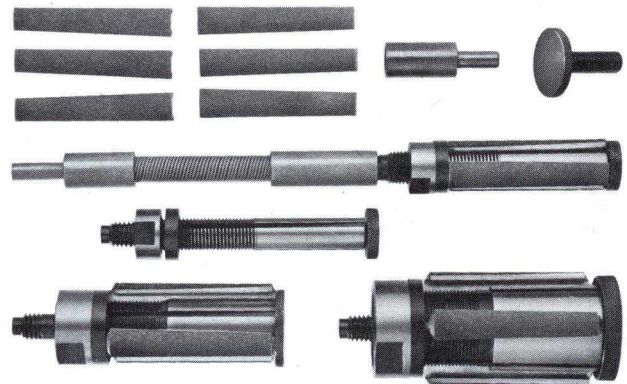
3 stones per set.



2094

Heavy Duty Hone Set

Range 3/4" to 1-7/8", contains four bodies, three sets of three blades (small, medium and large), with abrasives mounted, eighteen extra abrasives (nine coarse and nine fine); special 1" cup screw to be used on medium size body when honing step bore cylinders, one each solid and flexible driving shafts adaptable to 1/4" or 1/2" electric drill. Packed in Metal Kit.



Individual Hone Sets without Flexible Driving Shaft

2095

Range 1-7/8" to 2-1/4", packaged in cardboard box.

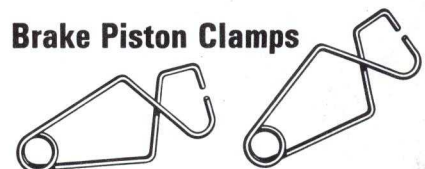
2096

Range 2-1/4" to 2-5/8", packaged in cardboard box.

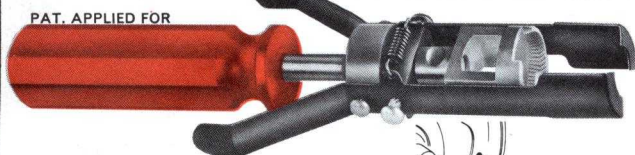
Numbers 2095 and 2096 Sets listed above contain 1 complete body, 3 sets of 5 blades (small, medium and large) with coarse abrasives mounted and 5 extra fine abrasives.

296

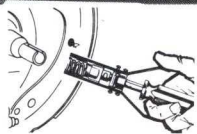
Brake Piston Clamps



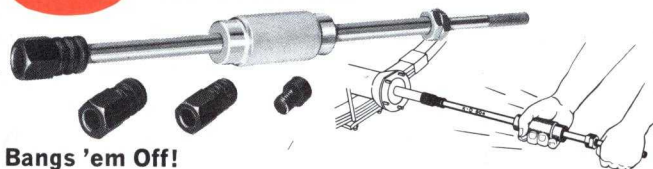
2065 Brake Spring Holdown Remover & Installer



Installs and Removes holdown spring and two (2) washers as a complete unit.



804 Axle Puller Set



Bangs 'em Off!

For pulling threaded axle shafts.

Set consists of 20" machined Bar with Sliding Hammer, plus Nos. 805, 806, 807 Adaptors to fit popular size axle.

Adaptors for K-D 804 Axle Puller

Size 5/8" X 18. 2-1/4" long.

Size 3/4" X 16. 2-1/4" long.

Size 7/8" X 14. 2-1/4" long.

Size 1" X 14. 2-1/4" long. Not furnished with 804 Set.

"Bingo" Wheel Pullers

A quick, convenient method for jarring wheel hubs loose without damage to axles.

All sizes 2-1/4" long. Sizes as follows:

5/8" X 18	7/8" X 16	1-1/4" X 7
3/4" X 16	7/8" X 18	1-1/4" X 12
3/4" X 20	1" X 14	1-1/2" X 6
13/16" X 16	1-1/8" X 7	1-1/2" X 12
7/8" X 14	1-1/8" X 12	



52 VW "Bingo" Wheel Puller

2-1/4" long. 24 MM.

1500 Tire Probing Tool



Spreads cuts in tires for easy removal of foreign bodies, without mutilating tires. Absolutely necessary for checking tubeless tires.

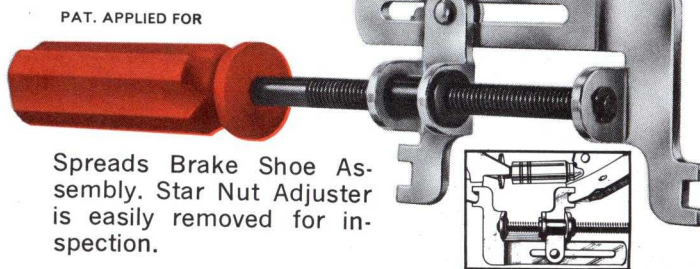
Meets Federal specifications.

2077 4 in 1 Tire Valve Stem Repair Tool

1. Removes Core
2. Rethreads inside of Stem
3. Extracts damaged Core
4. Rethreads outer part of Stem and Installs new stem in tubeless tires.



2022 Brake Star Nut Adjuster Installer & Remover



Spreads Brake Shoe Assembly. Star Nut Adjuster is easily removed for inspection.

470 Universal Wheel Weight Tool

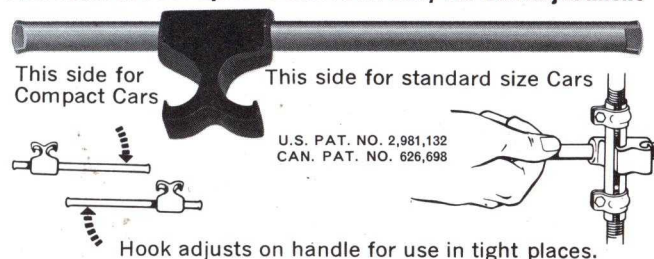


U.S. PAT. NO. 192,721

Drives weight into place, crimps automatically. To install and remove all types of wheel balancing weights.

840 Tie Rod Adjusting Tool

Two Tools in One! Spreads Sleeve for Easy Tie Rod Adjustment



This side for Compact Cars

This side for standard size Cars

U.S. PAT. NO. 2,981,132
CAN. PAT. NO. 626,698

Hook adjusts on handle for use in tight places.

284 Chevrolet Rear Brake Drum Puller

Use No Heat!



For freeing "frozen" brake drums from axle flanges. Chevrolet 1940 to date. Uses no heat, therefore no danger of distorting drum. Used only as a pair.

472 Repair-A-Chain



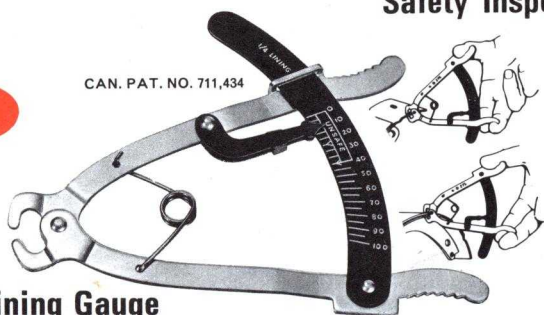
Fast easy repair of crosslink chains for all Passenger Cars and Light Trucks.

Makes tire chain repair fast and easy. Use side jaws for spreading or opening—front jaws for closing or pulling together.

Safety Inspection Gauges

275

CAN. PAT. NO. 711,434



Brake Lining Gauge

Shows % of lining remaining on passenger cars and light trucks. Indicates when lining is dangerously thin. One side measures 3/16" lining—reverse side measures 1/4" lining. Pointer is adjustable for shoes of various thicknesses.

276

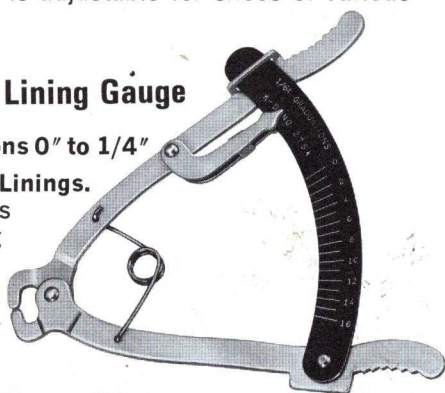
Brake Lining Gauge

Calibrated in Fractions 0" to 1/4"

For 3/16" and 1/4" Linings.

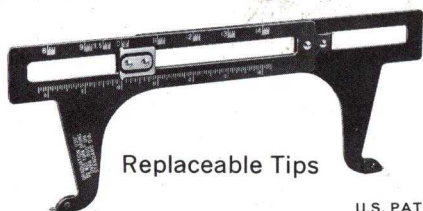
Accurately measures the amount of lining remaining.

CAN. PAT. NO. 711,434



277

Brake Drum Gauge



Replaceable Tips

U.S. PAT. NO. 3,190,006

Accurately measures Drum oversizes on passenger cars and light trucks. Primary scale measures all standard size drums 7-7/8" through 14-1/4" inclusive. Determines whether drum can be turned or discarded.

278

Brake Resetting Gauge



Replaceable Tips

U.S. PAT. NO. 3,190,006

Combination brake resetting and brake drum gauge. When set to drum size, gauge automatically shows correct shoe adjustment. Fixed position lock assures accuracy.

2099

Upper "A" Frame Support Arm

(Spacer Bar for No. 233)
Required by
Some States



2030

CAN. PAT. NO. 711,434



Truck and Bus

Brake Lining Wear Gauge for Bonded Lining

Measures percentage of useable lining on trucks and busses using 3/8" and 1/2" lining.

Includes extra scale for states requiring fractional measurements.

Scales can be changed in seconds.

PAT. APPLIED FOR

2045



Riveted Lining and Tire Tread Depth Gauge

Measures amount of useable lining left above the rivet head. Gauge is calibrated 8 to 1. Each scale indicates 1/64". Extremely accurate. A real "convincer" in selling brake relines and a "must" for states that have PMVI.

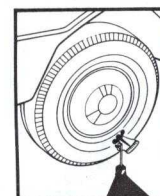
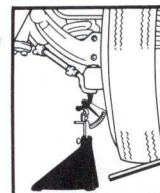
233

Ball Joint Inspection Gauge

Extension Bar for extra height



Right angle hole allows many positions and angles.

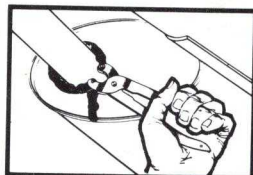


The gauge is calibrated on both sides in 1/16" increments with one-half the dial designed to measure side play and one-half to measure top play. Side play measurements begin at zero and go to 1/2". Top play area has a separate zero position and measures 1/4" in both directions from zero.

2031 Exhaust and Tail Pipe Cutter



PAT. APPLIED FOR

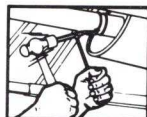


Completely adjustable to pipe sizes 3/4" to 2-5/8" in diameter.
15 cutters give excellent tracking.
Only 90° of handle movement required.
Gets into the tightest areas.
Special "Lock-Guard" feature controls cutting depth.

2074 Muffler and Tail Pipe Remover

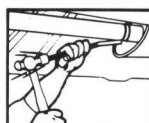


Removes rusted, corroded connections. Insert cutting edge between tail pipe and muffler nipple. Split open outside pipe.



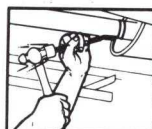
2072 Muffler and Tail Pipe Chisel

A few blows and muffler—tail pipe, are ready to slip apart. "Curl-cut" method is quick and positive. Cuts all kinds of sheet metal.



2073 Muffler Remover and Metal Peeler Chisel

Same design as No. 2074 but without handle. Gives clean fast cut.



3 in 1 Exhaust and Tail Pipe Expanders

2070



For pipes 1-7/16" to 2"

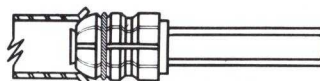
U.S. Pat. No. 3,324,701

2071

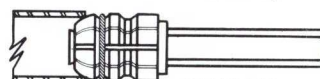


U.S. Pat. No. 3,324,701

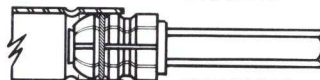
For pipes 1-13/16" to 2-1/2"



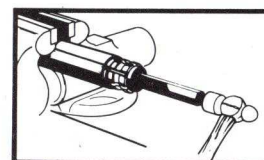
FLARES



SHAPES



EXPANDS



The only tools available that *flare* and *shape* the pipe end as well as *expand*. Three (3) features necessary to assure a tight fit—essential for prevention of gas by-pass.

Muffler and Tail Pipe Service Tool Kit

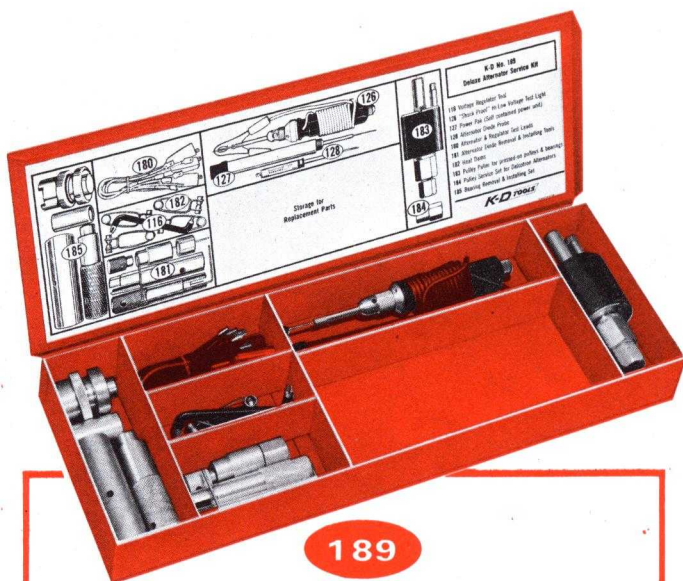


2075

Complete kit of tools for servicing entire Muffler System. Includes storage box made of heavy duty metal with compartments for tools.

Kit includes:

- No. 2031 Exhaust & Tail Pipe Cutter
- No. 2070 Exhaust & Tail Pipe Expander for pipe diameters 1-7/16" to 2"
- No. 2071 Exhaust & Tail Pipe Expanders for pipe diameters 1-13/16" to 2-1/2"
- No. 2074 Muffler & Tail Pipe Remover
- No. 2072 Muffler & Tail Pipe Chisel
- No. 2073 Muffler Remover & Metal Peeler Chisel



189

Complete Deluxe Alternator Service Kit

Kit includes all of the special tools and test equipment needed to service most Alternators. 90% of all Alternator repairs consist of replacing Diodes, Brushes and/or Bearings. Set includes the following:



Free instruction booklet included with each kit. Write for additional copies.

188 Custom Kit

Serves 80% of all Alternator problems. Includes all the tools illustrated above except bearing tools No. 183, 184, 185.

181 Alternator Diode Service Kit

For removing and installing Diodes and Brushes on: CHRYSLER • DELCO-REMY (Delcotron) • LEECE-NEVILLE • PRESTOLITE (Autolite) alternator systems.

Each Kit includes:

- 181-A Slip Ring & Frame Support
- 181-B Universal Diode Remover
- 181-C Universal Diode Installer
- 181-D Prestolite Brush Spreader
- 181-E Heat Sink Support for Diode Removal
- 181-F Universal Heat Sink Support for Diode Installation
- 181-G Delcotron Brush Hold Down Pin



185

Alternator Bearing Removal & Installing Set

A necessity for removing and installing bearings without injury to the bearings or bearing housing.

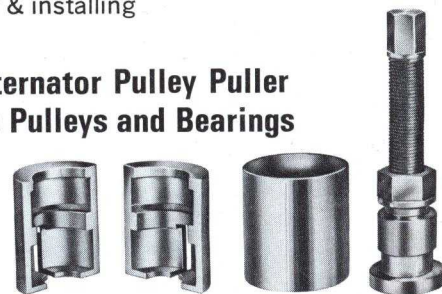


Consists of the following parts . . .

- 185-1 Universal drive-end frame installer
- 185-2 Universal drive-end frame installer
- 185-3 Universal bearing installer
- 185-4 Support for bearing removing
- 185-5 Universal support for bearing removing & installing

183 Alternator Pulley Puller For Pressed-on Pulleys and Bearings

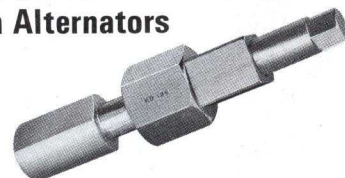
Works like a wheel puller. Jaws fit over pulley flange. Sleeve clamps jaws together. Turning the screw pulls pulley off safely, without damaging alternator. To pull internal bearings: reverse jaws to fit over bearing, and then follow same procedure as above.



184 Pulley Service Set for GM Delcotron Alternators

Loosens and Tightens Lock-nuts on GM Delcotron Single and Double Groove Pulley Nuts

Place hex socket on square end of sleeve. Place sleeve over shaft of tool. Tighten Vise Jaws on flats of tool shaft; insert hex end of shaft in socket of alternator shaft—hex socket over locking nut. Turn sleeve to loosen or tighten. Prevents damage to alternator.



125 Electrical Test Kit

K-D's Electrical Test Kit gives the mechanic a versatile set of equipment, designed to find a wide range of electrical troubles with speed and accuracy. Includes:

126 "Shock proof" Hi-low Voltage Test Light.

Combination electrical trouble shooter and spark plug tester. For all 6, 12, 24 & 32 volt systems.

127 Power Pak

Self contained power unit. Safely tests circuits with power off. Contains 3 popular flashlight batteries.

128 Alternator Diode Probe

Check alternator diodes, transistors, positive and negative wires. Fits No. 126 and 129 tester.

Set packaged in white plastic kit with complete set of instructions.

For Checking Alternator Diodes and testing live and dead circuits, positive and negative ground



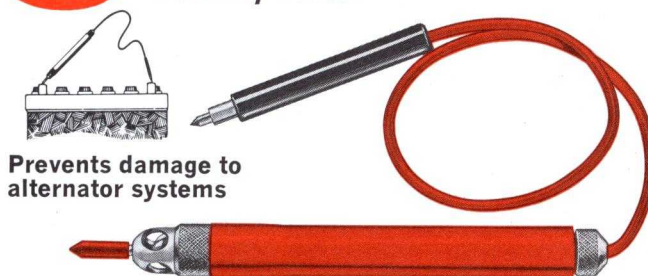
129 Low Voltage Circuit Tester



For all 6 to 32 Volt Systems

Ground clip anywhere on car. Push point thru insulation of cable being tested until it makes contact with copper conductor inside. Bulb in handle will light if wire is "hot", will not if "dead". Check continuity and grounds of field coils when coupled with No. 127 Power-Pak. Also checks Diodes by using K-D No. 128 Diode Probe.

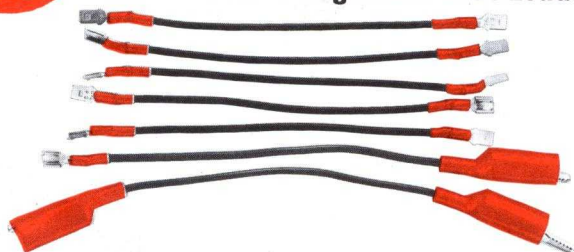
123 Polarity Tester



Prevents damage to alternator systems

Prevents costly damage to alternator systems and transistor radios due to reverse battery charging. Just put tool on battery terminals, and when the light is steady and bright, you know you're right for charging. Also can be used as a general purpose tester for checking polarity in all types of circuitry, up to 32 V.D.C.

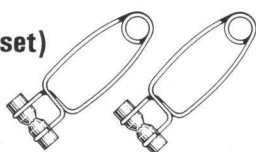
180 Alternator and Regulator Test Leads



Spade, Pin and Clamp type connections for testing alternator and regulators with various test equipment.

182 Heat Dam's (2 heat dams per set)

Prevents damage when replacing Diodes in Alternators.



187 "Check Point Charley" Circuit Tester

Completely Safe—Will Not Damage Alternator



The ultimate in simplicity—saves countless hours by pinpointing the trouble area in a matter of minutes. Simple to use—requires absolutely no technical know-how or special skills. Complete with instructions.

- Isolates trouble in: Indicator Light Regulator Harness Wiring Alternator



121 "All Purpose" Electrical Ground Probe

Grounds out ignition for checking faulty valves, pistons, wristpins, hydraulic lifts, spark plugs, etc.

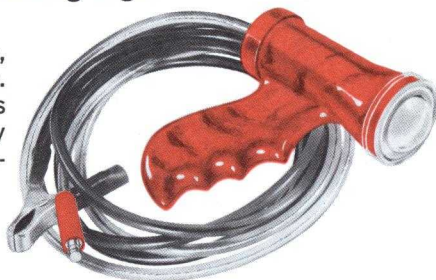
135 Insulated Spark Plug Terminal Pliers



No more burned fingers with this special tool designed to remove cable terminals from Spark Plugs quickly and easily. Heavy duty handles covered with "dielectric" plastic allows shockproof—sure grip operation.

152 Neon Timing Light

Compact, pistol grip, nonbreakable lens. Brilliant light makes indicator mark easy to read. Tube and reflector replaceable.

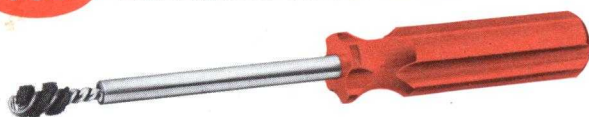


2025 "3 in 1" Distributor Wrench for Chevrolet and Rambler

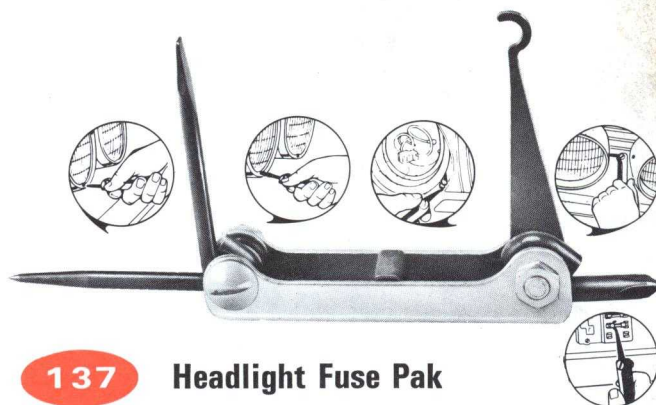


Removes and installs primary terminal on all 6 cylinder Chevrolets and AMC. Hex key extension adjusts points on Chevrolet V-8's.

103 Distributor Tower Brush



For cleaning all makes of distributor Tower head sockets. Just insert tool and twist—removes rust, dirt and corrosion.



137 Headlight Fuse Pak

Multi-purpose tool makes working on head lamps and changing fuses a "snap". Aligns screw holes on head lamp casings—pulls head lamp springs and reaches between double lamps with short screw driver adapted to fit all Reed & Prince and Phillips head screws.



134 Tail & Stoplight Bulb Kit

No. 138 Bulb Gripper, No. 136 Bulb Base Remover and No. 139 Socket Cleaning Brush, takes care of installing and removing light bulbs and cleaning corroded sockets. No more cut fingers with these handy tools designed to reach into the tightest places. Packaged in handy plastic kit.

136 Bulb Base Remover Pliers

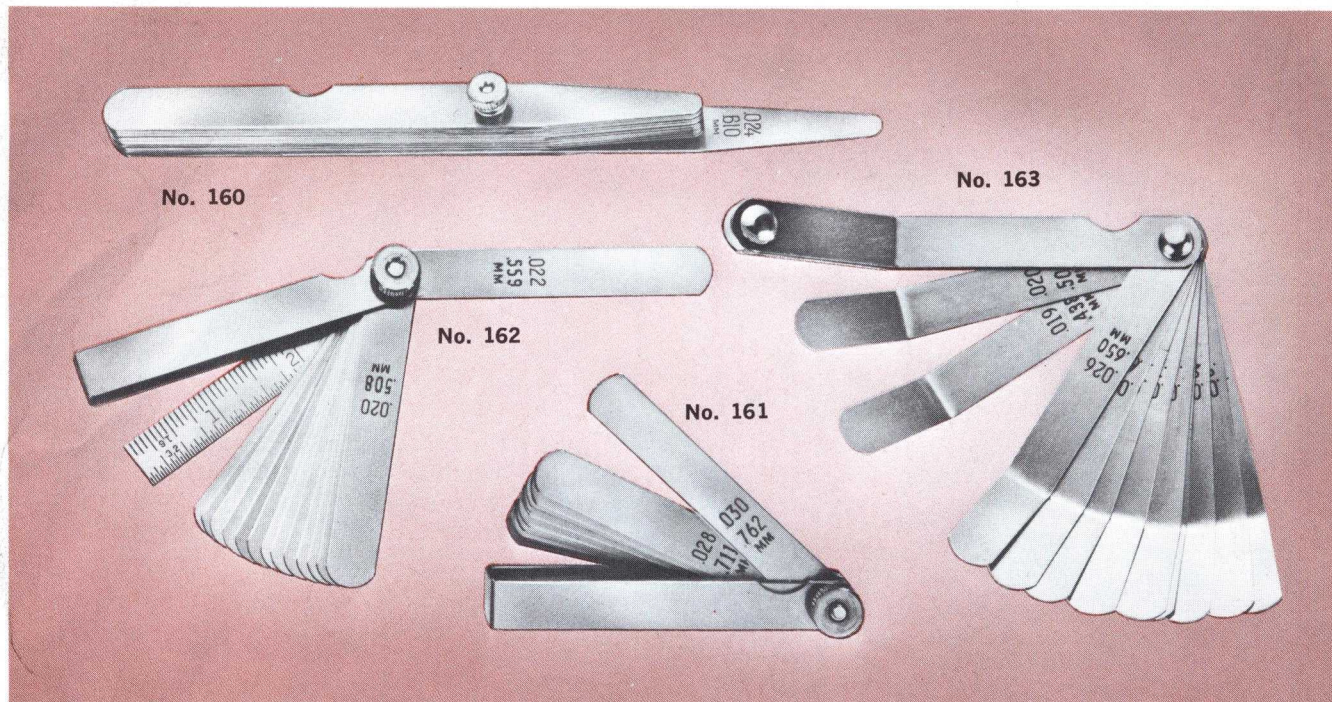
Removes corroded bases when bulb is broken. Serrated lip on jaws gives firm hold for tight, positive grip without crushing bulb base.

138 Bulb Gripper

Installs and removes light bulbs from tail lights, stop lights, turn signals, running lights on trucks, etc. Removes bulbs from corroded sockets. Rubber coated jaws permit soft, yet firm grip.

139 Socket Cleaning Brush

Removes corrosion and cleans light bulb sockets. Available in Kraft envelope.



Thousandth's & MM Equivalent *K-D* Feeler Gauges

Top quality K-D Gauges permit extreme accuracy of work on Spark Plug Gaps, Distributor and Ignition Points and Tappet Adjustments.

Decimal and metric sizes electrically etched on each blade for permanency.

160 Double End Feeler Gauge

Unique design contains both standard and tapered blades. Each blade stamped with decimal and metric equivalents. 26 blades with locking nut; in the following sizes:

Thousandth's	M.M.	Thousandth's	M.M.
.0015	.037	.013	.330
.002	.051	.014	.356
.0025	.063	.015	.381
.003	.076	.016	.406
.004	.102	.017	.432
.005	.127	.018	.457
.006	.152	.019	.483
.007	.178	.020	.508
.008	.203	.021	.533
.009	.229	.022	.559
.010	.254	.023	.584
.011	.279	.024	.610
.012	.305	.025	.635

161 Deluxe Feeler Gauge

Gauge with 32 straight blades with locking nut, including 1* Brass blade; in the following sizes:

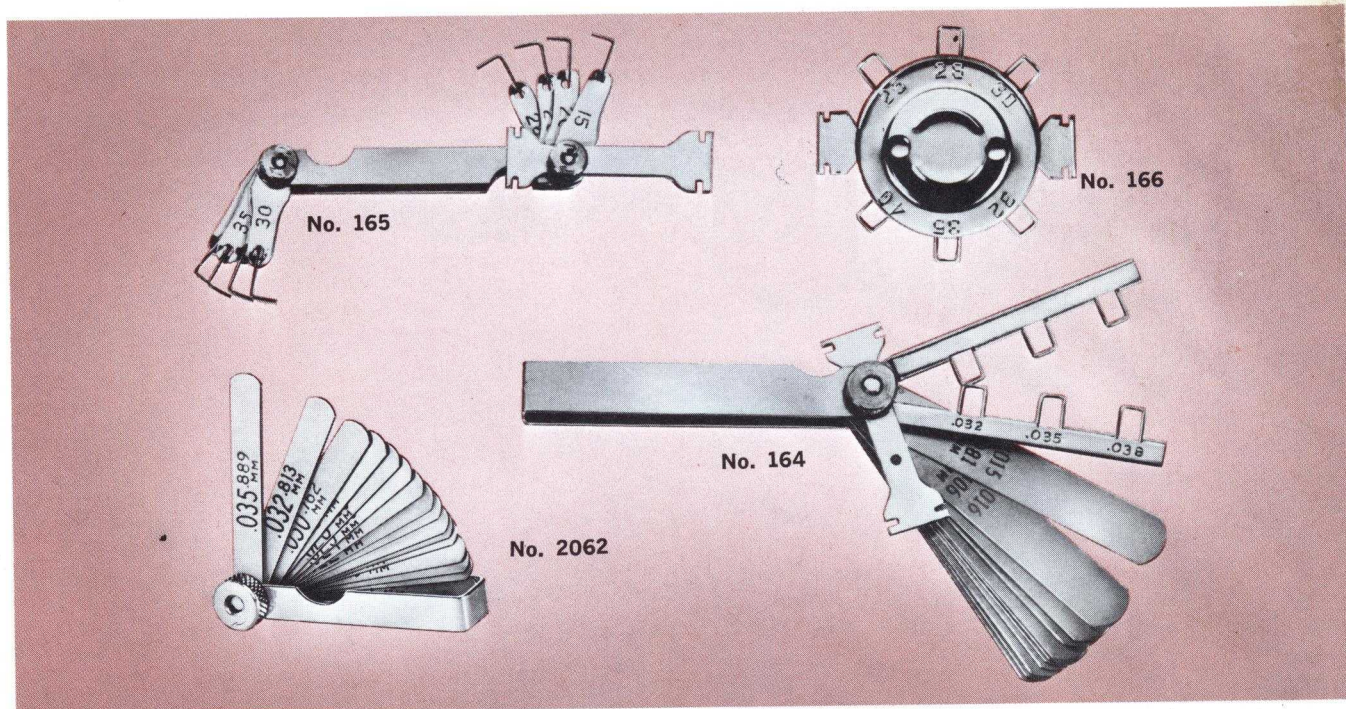
Thousandth's	M.M.	Thousandth's	M.M.
.0015	.038	.015	.381
.002	.051	.016	.406
.0025	.063	.017	.432
.003	.076	.018	.457
.004	.102	.019	.483
.005	.127	.020	.508
.006	.152	.021	.533
.007	.178	.022	.559
.008	.203	.023	.584
.009	.229	.024	.610
.010	.254	.025	.635
*.010	.254	.026	.660
.011	.279	.028	.711
.012	.305	.030	.762
.013	.330	.032	.813
.014	.356	.035	.889

*Brass Blade for Transistorized Ignitions

162 Feeler Gauge

Gauge with 15 straight blades with Locking Nut and one 3" rule; in the following sizes:

Thousandth's	M.M.	Thousandth's	M.M.	Thousandth's	M.M.	Thousandth's	M.M.
.002	.051	.006	.152	.013	.330	.020	.508
.003	.076	.008	.203	.014	.356	.022	.559
.004	.102	.011	.279	.016	.406	.025	.635
.005	.127	.012	.305	.018	.457		



With Special Adjusting Lock Nut & Permanently Etched Numbers

163 Valve Tappet Feeler Gauge

Gauge with 11 offset blades with Locking Nut; in the following sizes:

Thousandth's	M.M.	Thousandth's	M.M.	Thousandth's	M.M.	Thousandth's	M.M.
.008	.203	.013	.330	.016	.406	.020	.508
.010	.254	.014	.356	.018	.457	.026	.660
.012	.305	.015	.381	.019	.483		

164 Combination Gauge

Gauge with 6 spark plug gauges (same sizes as on No. 166) and 12 straight blades with Locking Nut and electrode adjusting tool; in the following sizes:

Thousandth's	M.M.	Thousandth's	M.M.
.010	.254	.019	.483
.012	.305	.020	.508
.015	.381	.022	.559
.016	.406	.024	.610
.017	.432	.025	.635
.018	.457	.026	.660

165 Spark Plug Wire Gauge

Special spark plug 8 wire gauge with electrode adjusting tool; in the following sizes:

Thousandth's	M.M.	Thousandth's	M.M.
.015	.381	.030	.762
.020	.508	.032	.813
.025	.635	.035	.889
.028	.711	.040	1.016

166 Spark Plug Gauge

Special K-D Gauge with 6 wires consisting of the following sizes:

Thousandth's	M.M.	Thousandth's	M.M.
.030	.762	.032	.813
.028	.711	.035	.889
.025	.635	.040	1.016

Includes 2 hardened and plated electrode adjusting tools.

2062 "Mini" Feeler Gauge

Gauge with 16 straight blades with Locking Nut. 1/4" wide x 1-3/4" long. Handy for working in close quarters.

Thousandth's	M.M.	Thousandth's	M.M.
.010	.254	.022	.559
.012	.305	.024	.610
.013	.330	.025	.625
.015	.381	.026	.660
.016	.406	.028	.711
.017	.432	.030	.762
.018	.457	.032	.813
.020	.508	.035	.889

85

Electric Marking Pencil

Writes Permanently on all Metals



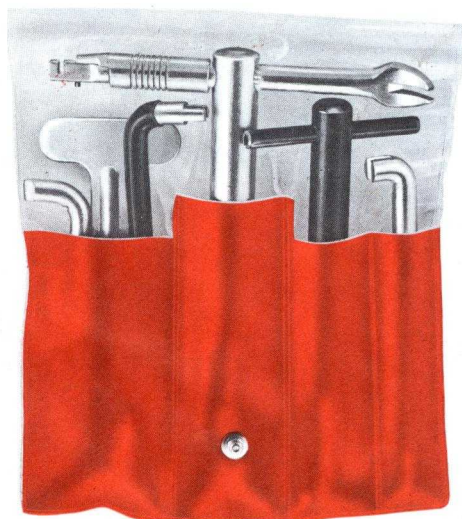
- Operates on 6 or 12 volt battery or transformer
- Insulated with heat and wear-proof material
- Replaceable Tip
- Heavy duty ground lead provided
- Writes like a pencil
- Makes permanent identification on tools, equipment, motor parts and all metal items.

18

Delco-Remy Horn Adjusting Wrench



Designed to fit firmly over screw head, in a confined area. Used for adjusting horns on all G.M. cars.



122

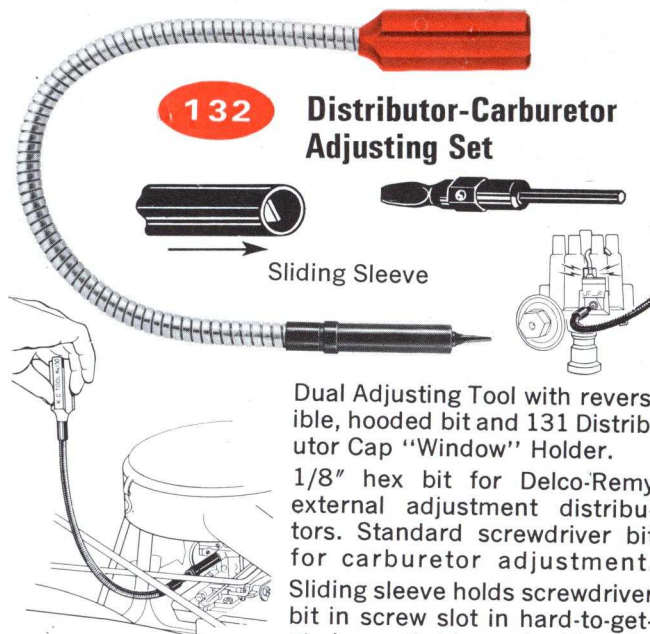
Ignition Tool Kit

For most all types of ignition adjustment. Kit covers all types of ignition service with one complete set of tools. Plastic case 4-15/16" x 4-5/8". Contains following tools:

- 112** Ignition Wrench
 - 114** Ford Governor Spring Adjusting Wrench
 - 115** Ignition Point Aligning Tool
 - 116** Autolite & Delco Voltage Regulator Tool, rubber insulated.
 - 117** Offset Screwdriver for Ford V-8 Ignition Point Clamping Screws.
 - 118** Ford Voltage Regulator Tool.
- Tools may be purchased separately.

132

Distributor-Carburetor Adjusting Set



No. 130

Dual Adjusting Tool only.

Dual Adjusting Tool with reversible, hooded bit and 131 Distributor Cap "Window" Holder.

1/8" hex bit for Delco-Remy external adjustment distributors. Standard screwdriver bit for carburetor adjustment. Sliding sleeve holds screwdriver bit in screw slot in hard-to-get-at places. Guide mark at handle enables you to count turns.

The 131 is magnetized to hold the distributor "window" up while making adjustment.

730

Spark Plug Opening Chaser

Combination 14MM and 18MM "Chaser" services practically all makes and model cars. Cleans threads of carbon corrosion and metal. 13/16" hex has neoprene band to hold "Chaser" firmly in deep wall spark plug wrench.



111

Universal Ignition Point

Aligning Tool

For aligning contact points right in the distributor.

For all kinds of points in all types of distributors. Illustrations on instruction sheet show each Arm in use on the type point it is designed to service.

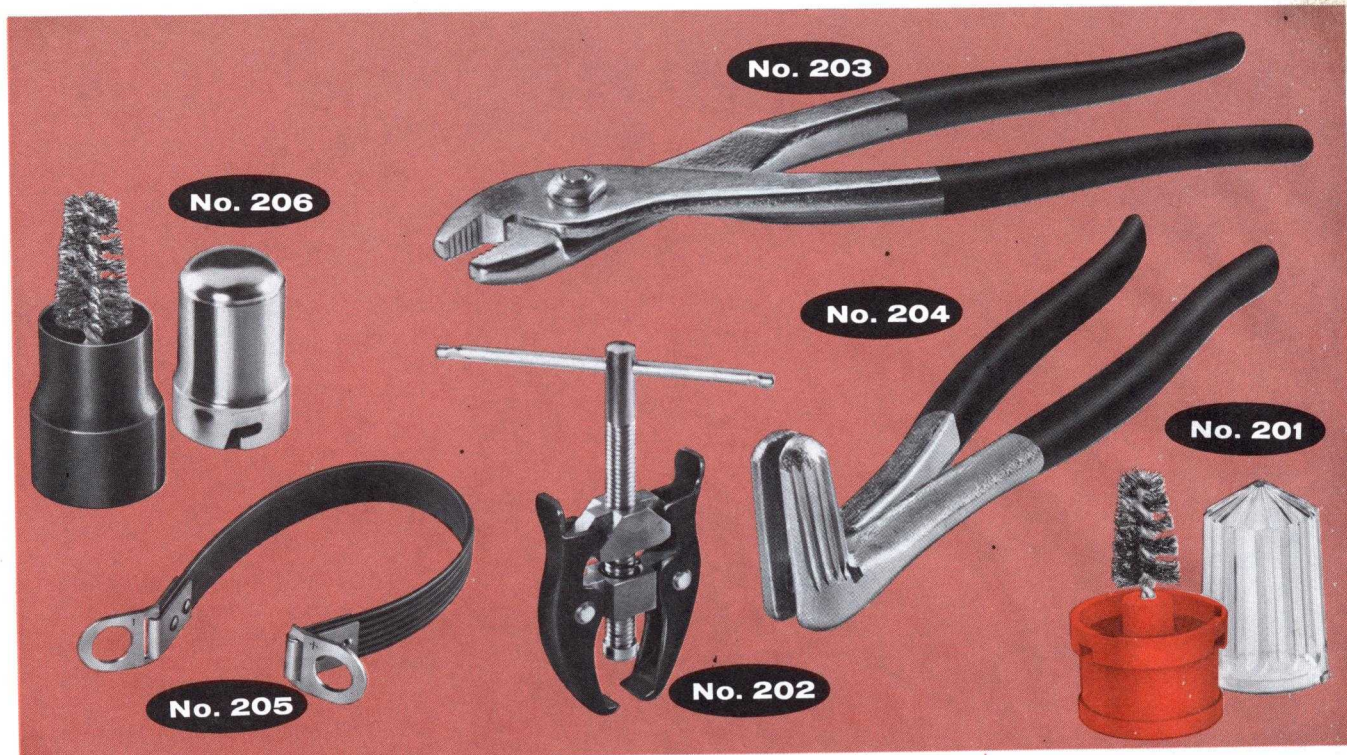


104

Distributor Clamp Wrench



A necessity for any shop doing distributor work. The K-D 104 gets to the nut locking the distributor and enables the mechanic to loosen nut, adjust timing, and lock distributor.



K-D BATTERY SERVICE TOOLS

Available individually or in special kits

All items S/P or carded except 209 (boxed).

202 Battery Terminal Puller

Removes corroded clamps including spring types. Extra sharp points on jaws get under clamps and increase lifting action or dig into sides if clamp is on bottom.

203 Battery Nut Pliers

The pliers with the positive grip. Designed to give maximum leverage in cramped areas. Sturdy construction for long life.

204 Battery Terminal Spreader and Cleaner

Sharp milled teeth for real cleaning effectiveness. Compare with competition. Only the K-D pliers has this sharpness. Cleans and spreads in one operation.

206 Battery Brush (Metal Case)

For both terminal and posts. Made of high-strength metal for many years of use.

201 Battery Brush (Plastic Case with Wire Brush)

High impact plastic. Will not corrode. Will not soften in cleaning solutions.

205 Battery Carrier Strap

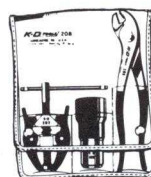
Made of "indestructible" plastic—impervious to acid.



Special Battery Service Kits

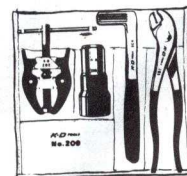
207 Kit

Includes Nos. 202, 203, 204



208 Kit

Includes Nos. 202, 203, 206



209 Kit Includes

Nos. 202, 203, 204, 206



2087

Air Conditioner Test Equipment Set

A 2051 Manifold Pressure Gauge
3 color coded lines (2-36" Red & Blue Lines, 1-60" yellow line) and 1 high and low Pressure Gauge.

B 2054 Safety Goggles
Protects eyes against harm from refrigerant.

C 2084 Mini Butane Leak Detector
6-1/2" long and weighs only 5 ounces. Replaceable cartridge will last over 1/2 hour.

D 2056 Refrigerant Can Dispensing Valves
Locks valves securely on can. Fits flat top or screw type can.

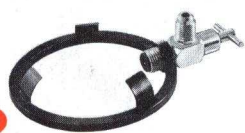
E 2046 Air Condition Wrench
Services Compressor Service valves, Clutch belts, Cap fittings, Charging bottles, etc. 3/16" sq., 1/4" sq., 1/2" and 9/16" hex.

F 2055 Pocket Thermometer
Determines if unit is at peak efficiency.

Optional Equipment



2052 Propane Leak Detector (Heavy Duty). Lights without priming or generating. Locates the smallest leaks.



2088 Universal Freon Can Dispenser. Fits standard and "Mini" refrigerant cans.



2053 Portable Vacuum Pump. Will pull 28.5" of vacuum at sea level. Light weight, compact and portable.



2080 90° Adapter Fitting. For making car leak tests in tight areas.



2083 Chrysler Air Temp Gauge. Use with No. 2051 when testing Air Temp system.



2086 Butane Chargers for 2084. Each cartridge lasts over 1/2 hour.

2013

Air Conditioner Compressor Service Tool Kit

A 2017 Universal Bearing Service Set

Installs and removes compressor pulley bearings.

B 2020 Snap Ring Pliers

No. 2020A Internal and No. 2020B External. Special points installs & removes GM Compressor Rings.

C 2018 GM Clutch Holding Wrench

Prevents damage to Clutch Drive Plate.

D 2015 Universal Pulley Puller

Adjustable jaws fit any size pulley.

E 2014 GM Seal Kit

For removal and replacement of GM Seal and "O" Rings.

F 2016 Universal Clutch Service Kit

Removes clutches on Chrysler, Ford and others. Special Feeler Gauges for proper gapping of clutch plate & pulley.



Optional Equipment

2049

Universal Seal Kit for York, Tecumseh and Airtemp Compressors. Installs & removes Cartridge and Unitized-Type Seals.

2048

Universal Oil Level Checker Set for York, Tecumseh and Airtemp.

2050

Test Plate for GM 6 cylinder compressor. Should be used everytime a seal has been replaced.

2081

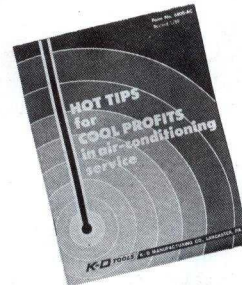
Chrysler Seal Seat Installer & Remover. Prevents possible seal damage.

2082

Chrysler EPR Valve Remover and Installer.

2085

1 Qt. Can Compressor Oil.

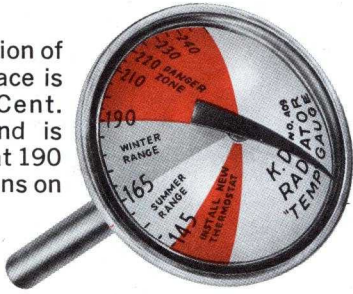


Free instruction booklet included with each kit. Write for additional copies.

Air Conditioning & Cooling

409 Deluxe Radiator "Temp" Gauge

Checks general condition of cooling system. Dial face is calibrated in F. & Cent. increments of 5° and is guaranteed within 1° at 190 F°. Complete instructions on gauge.



411 Top Tank Thermometer

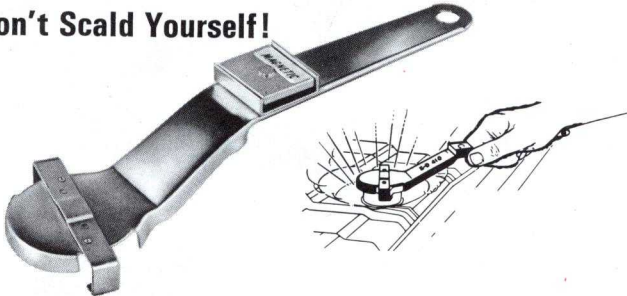


Stainless steel case containing complete instructions and suggestions for use.

Complete instructions on Thermometer and on card.

410 Radiator Cap Wrench

Don't Scald Yourself!



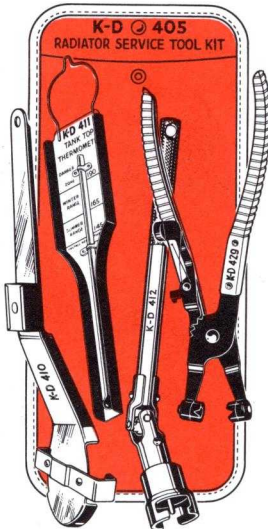
Magnet holds Wrench to gas pump, car body, etc. No more burned hands. Strong, channel, construction with leverage enough to remove the most stubborn caps. Fits all standard sizes. Rustproofed. 10-1/4" long.

405

Radiator Service Tool Kit

The most frequently required tools for radiator service and repair in shops and service stations. Packed in durable, plastic, see-through kit with button flap. Contains:

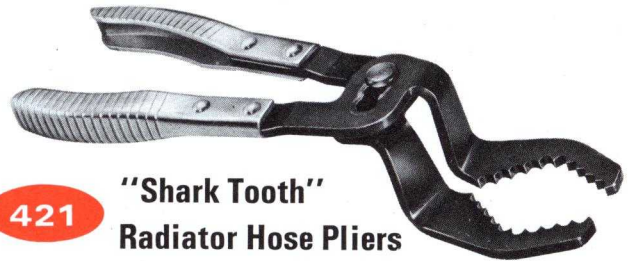
- 410 Radiator Cap Wrench
- 411 Top Tank Thermometer
- 412 Petcock Drain Tool
- 429 Hose Clamp Pliers



145 Radiator Hose "Pinch-Off" Pliers



Eliminate necessity of draining cooling system when installing Thermostats and Water Pumps on all pressurized cooling systems. Also works on heater hose. Jaws Swivel for parallel clamping and positive shutoff. Automatic ratchet locking.



421

"Shark Tooth" Radiator Hose Pliers

Radiator & Heater Hose Removal & Installation. Thermostat Installation. Water Pump Installation. Radiator Repairs. Engine Overhauls.

A few twists and hose is completely free from gasket glue, frozen fittings, etc.

412

Petcock Drain Tool . . .



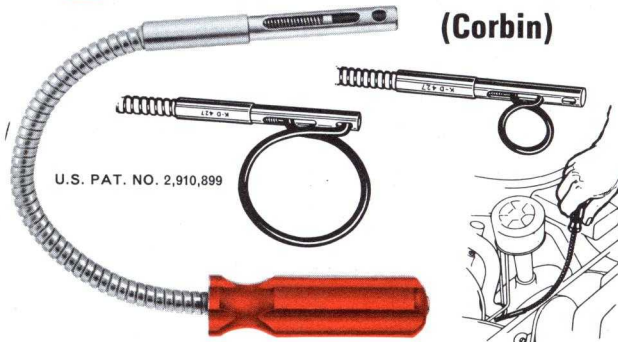
Stand Clear!

U.S. PAT. NO. 3,010,346

Socket head fits and holds onto T-handle of petcock while it is being opened. Universal Joint in handle allows operator to stand clear of hot, rusty water.

427

Flexible Shaft Hose Clamp Tool (Corbin)

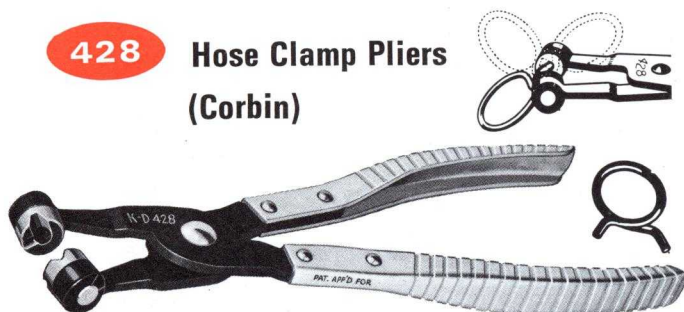


U.S. PAT. NO. 2,910,899

No kink, "memory" cable reaches into tight places inaccessible to pliers type tools. Easy turns of plastic Handle operate a screw within the sleeve on end of Cable, compressing clamp.

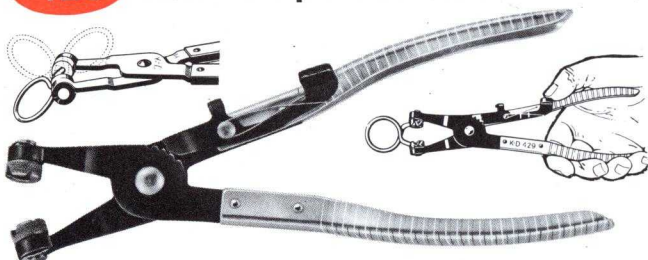
SMALL SIZES, use rear slot only.
LARGE SIZES, use both slots.

428 Hose Clamp Pliers (Corbin)



Double slots in each Jaw provided to hold small or large sizes securely. Jaws close fully so small sizes can be completely expanded. Jaws swivel through 180 degrees.

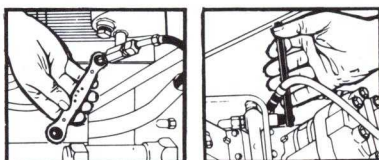
429 Hose Clamp Pliers Corbin



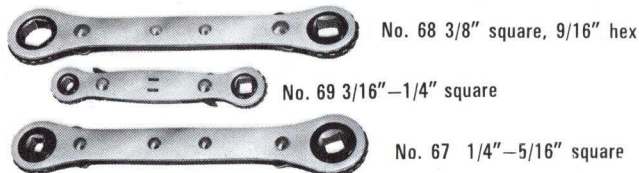
Positive latch holds clamps securely when expanded. A tool proven in use, improved by the addition of a 4-position automatic thumb latch. Jaws swivel thru 180°.

64 Ratchet Wrench Set

for Automotive and Commercial Air Conditioning and Refrigeration Systems



Fits 3/16", 1/4", 5/16", 3/8" square valve stems and 9/16" hex used on tanks and compressors. Each wrench has exclusive K-D pawl for reversing ratchet action. Available separately S/P.

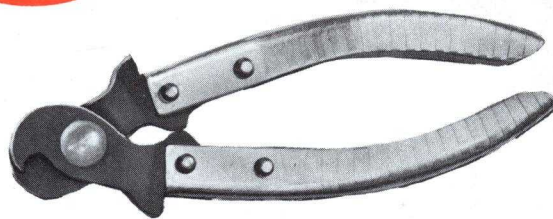


2026 Perma-Quik Assortment Rack



Special Perma-Quik Assortment Rack includes 125 Clamps to fit Fuel Filter, Power Brake and many other Hose Applications. Plus No 2036 Removal Tool. and No. 424 Installer Tool.

2036 Removal Tool & Wire Stripper



Removes the new type Perma-Quik Clamps quick and easy.

424 Hose Clamp Remover and Installer

U.S. PAT. NO. 3,216,291



Removes and installs the new type hose clamps presently being used for hose applications on replaceable Fuel Filters, Water Pumps, and other original equipment.

2040 Dispenser Box Assortment



Heavy Duty Clear Plastic with compartments containing stock of 70 Perma-Quik Hose Clamps and the 2 Essential Tools for Removal and Installation.

No 2036 Removal Tool. No. 424 Installer Tool.

2041 Dispenser Box Only

Perma-Quik Replacement Hose Clamps

2027-590 20 clamps for Fuel Filter Hose • Ford • Mercury • Chevrolet • Rambler

2027-615 20 clamps for Fuel Filter Hose • Plymouth • Dodge

2027-650 20 clamps for Fuel Filter Hoses • Pontiac • Olds • Buick

2027-745 20 clamps for Power Brake Hose • Ford • Mercury • Plymouth • Dodge • Pontiac • Rambler

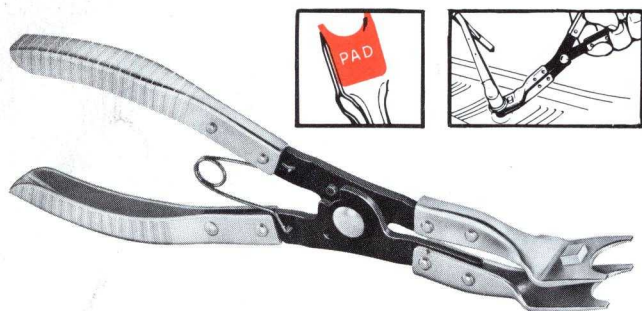
2028-1025 15 clamps for Heater Hose • Chevrolet • Pontiac • Olds • Buick

2028-1075 15 clamps for Heater Hose • Ford • Mercury • Plymouth • Dodge • Rambler

2028-1160 15 clamps for Heater Hose • Chevrolet • Pontiac • Olds

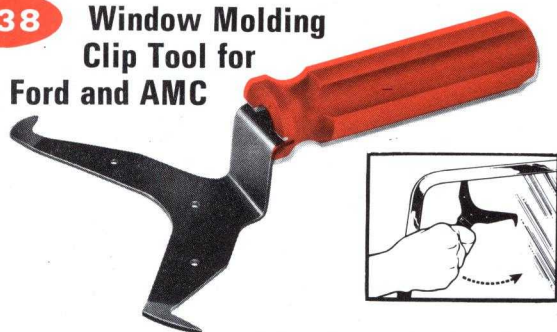


2039 Windshield Wiper Arm Remover



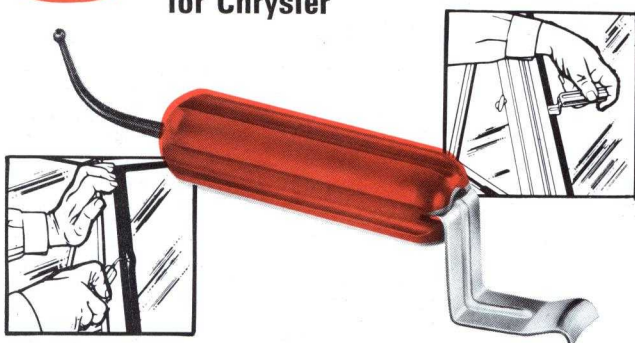
Removes wiper arm without scratching painted surface. Bottom of jaw is coated with protective plastic. Simply insert jaws between base of wiper arm and attachment surface and squeeze. Wiper arm is off in seconds.

2038 Window Molding Clip Tool for GM, Ford and AMC



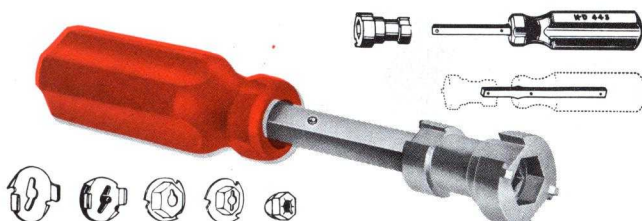
Locate jaw flat to glass. Locate clips and "roll" them out, keeping the tool surface flat to the glass.

2037 Window Molding Clip Tool for Chrysler



One end spreads rubber zipper type gaskets—other end removes "standard" Chrysler Clips.

443 Reversible Shaft Molding Nut Tool



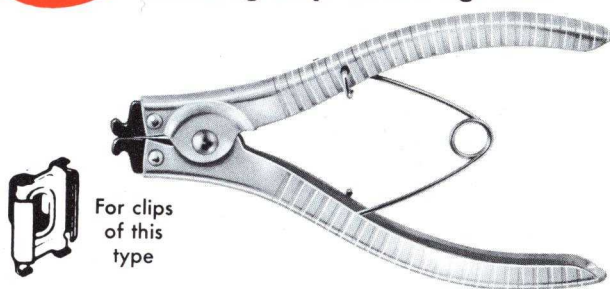
U.S. PAT. NO. 2,895,362

With reversible head 5/16" and 3/8" the 443 removes and replaces thread cutting nuts and self threading hex nuts as shown. Reversible shaft (3-7/16" and 4-15/16") permits access to virtually all nuts.

443-B Molding Nut Wrench Head Only

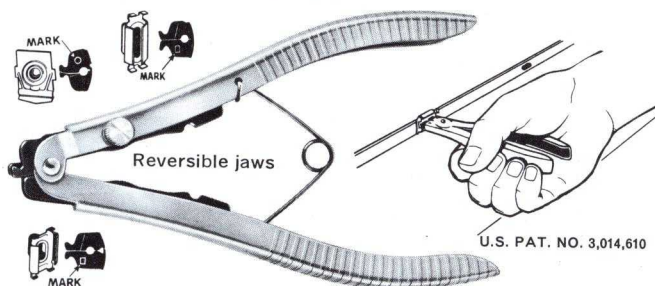
443-H Handle Only

440 Molding Clip Installing Tool



Designed to install molding clips in Chevrolet, Buick, Olds and Pontiac. Small and easy to handle. Jaws fit into clip. Squeezing handles expands clip holding it securely in place. Avoid excessive pressure and twisting.

441 Universal Molding Clip Installing Tool



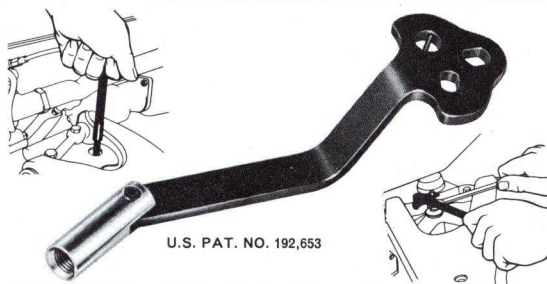
U.S. PAT. NO. 3,014,610

For both the "bathtub" and "hat" type clips. Jaws are identified as shown—circle mark for the "hat" clip, a square one for the "bathtub".

465 Universal Shock Absorber Tool

Used to install all makes of shocks in all makes of cars. **Reaches Deep!**

Reaches down through mounting hole and threads onto shock piston rod. Pulls shock up into mounting position. Wrench opening fits end of piston rod and holds it securely while mounting nuts are being tightened.

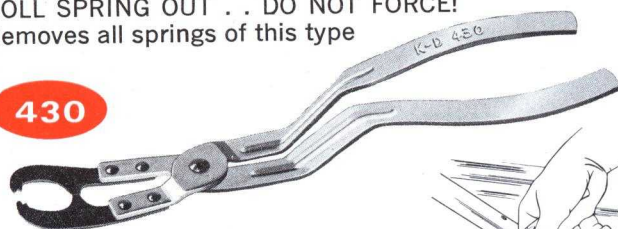


U.S. PAT. NO. 192,653

DOOR HANDLE TOOLS

ROLL SPRING OUT . . DO NOT FORCE!
Removes all springs of this type

430



For all GM cars since 1933; all Ford cars since 1951; all others using this type clip. Fastest, surest way to reach and remove interior door handles. Won't mar upholstery, reduces danger of flying springs.



431

Door Handle and Window Lifter Remover



Removes all clips of this type on Fords and GM cars.

Pushes spring back just far enough to remove handle. Spring remains on handle—cannot be lost—eliminates danger of flying springs. Reverse end of tool used to remove door panels.



435

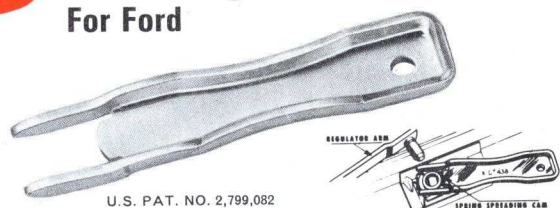
Designed for Chrysler-built cars since 1955. The spring clip illustrated must be released from a groove in the shaft before handle can be removed. Pronged Jaws also useful in removing interior door trim panels.



Release handle springs of this type

438

Window Regulator Arm Remover For Ford



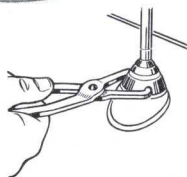
Releases spring clip which secures Regulator Arm so Arm can be lifted off with spring still in place, undamaged. Roller assembly remains in the channel ready for replacement.

420

Radio Aerial Pliers

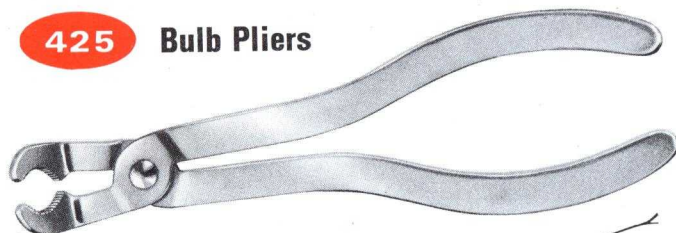


For removing, installing the double notched, cone-shaped nut used on many fender aerals. Useful for many other light spanner wrench jobs.

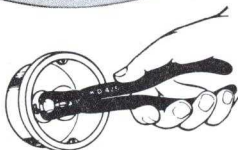


425

Bulb Pliers

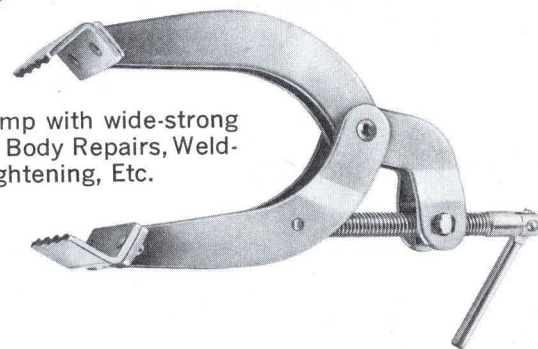


Removes, installs bayonet and flange types. Jaws milled with sharp teeth for sure, non-slip grip on base of bulbs to prevent breaking glass.



140

Multi-Purpose Body Clamp



Screw clamp with wide-strong jaw pads. Body Repairs, Welding, Straightening, Etc.

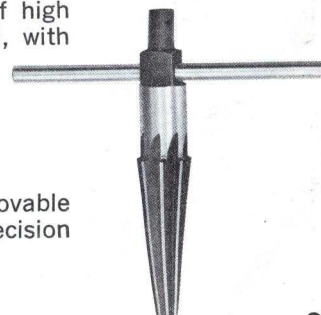
Ream, De-Burr, Align, Enlarge and Start Taps with K-D's Two New TAPER REAMERS

2043

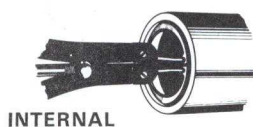


1/8"-1/2" Reamer made of high grade tempered Tool Steel, with sure grip plastic handle.

2044



7/16"-1" Reamer with removable handle for easy storage. Precision ground tempered steel.



INTERNAL

K-D SNAP RING PLIERS

Interchangeable Points

Using different types and sizes of interchangeable Points a wide range of application is provided. Hexagonal points are automatically aligned and secured in hexagonal shape jaws, secured by a round head screw in each tempered jaw plate . . . they cannot twist. Points are highest quality tool steel, accurately machined and tempered.



EXTERNAL

2011 "2 in 1" Snap Ring Pliers

U.S. PAT. NO. 3,040,420
CAN. PAT. NO. 648,169



U.S. PAT. NO. 3,228,101

Exclusive, patented combination 2-in-1 Snap-Ring Pliers for both internal and external rings. One 447 interchangeable point assortment included . . .

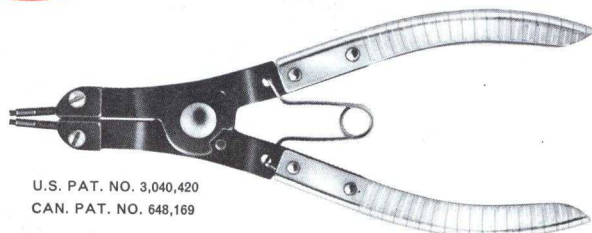
445 Internal Snap Ring Pliers



U.S. PAT. NO. 3,040,420
CAN. PAT. NO. 648,169

One 445T Internal Snap Ring Pliers only and one 447 Interchangeable Point Assortment, five pairs.

446 External Snap Ring Pliers

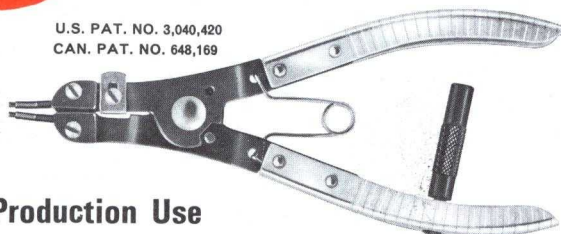


U.S. PAT. NO. 3,040,420
CAN. PAT. NO. 648,169

One 446T External Snap Ring Pliers only and one 447 Interchangeable Point Assortment, five pairs.

446X External Snap Ring Pliers

U.S. PAT. NO. 3,040,420
CAN. PAT. NO. 648,169



For Production Use

Two adjustments for production use, where many rings of the same size are being handled. Adjustment stops on jaws can be set to any desired point spread. Stop on handle to control maximum ring expansion.

Each of the above Pliers shipped with one 447 Point Assortment.

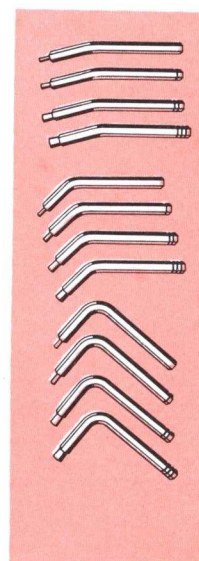
446XT External Snap Ring Pliers Only, no points

444 Set

One 445T Internal Snap Ring Pliers, one 446T External Snap Ring Pliers and one 448 Interchangeable Point Assortment, nine pairs.

449P Interchangeable Points

Order by COMPLETE type Number as listed below.



TYPE NO.

449P-.039-15 (Point diameter .039", angle 15°)
449P-.047-15 (Point diameter .047", angle 15°)
449P-.074-15 (Point diameter .074", angle 15°)
449P-.090-15 (Point diameter .090", angle 15°)

449P-.039-45 (Point diameter .039", angle 45°)
449P-.047-45 (Point diameter .047", angle 45°)
449P-.074-45 (Point diameter .074", angle 45°)
449P-.090-45 (Point diameter .090", angle 45°)

449P-.039-90 (Point diameter .039", angle 90°)
449P-.047-90 (Point diameter .047", angle 90°)
449P-.074-90 (Point diameter .074", angle 90°)
449P-.090-90 (Point diameter .090", angle 90°)

.039 point identified by plain shank.
.047 point identified by one notch on shank.
.074 point identified by two notches on shank.
.090 point identified by three notches on shank.

447 Interchangeable Points Set

5 pairs points in plastic box.

449P-.039-15 449P-.047-15
449P-.074-15
449P-.039-45 449P-.047-90



448 Interchangeable Points Set

9 pairs points in plastic box.

449P-.039-15 449P-.039-45
449P-.047-15 449P-.047-45
449P-.074-15 449P-.074-45
No. 449P-.039-90
No. 449P-.047-90 449P-.074-90



451 Interchangeable Point Set



Makes 445, 446, and 446X Universal. Four pairs in plastic storage box. Contains:

One pair 449P-.020", for smallest rings
One pair 449P-.060-15, four identifying grooves.
One pair 449P-.090-15
One pair 449H—for holeless rings



More range with these larger Snap Ring Pliers

These tools are designed to supplement the 445 and 446. By using the different types and sizes of interchangeable points, the mechanic has a wider range of applications, both automotive and industrial. Pliers each 9-3/8" long with firm-grip handles, automatic ratchet locking device built into handle.

454 Set

One 455T Internal Snap Ring Pliers, one 456T External Snap Ring Pliers and one 457 Interchangeable Point assortment (3 pairs Interchangeable Points in plastic storage box). Set packed in plastic kit with button flap.

455 Internal Snap Ring Pliers and Points

U.S. PAT. NO. 3,040,420
CAN. PAT. NO. 648,169

One 455T Internal Snap Ring Pliers only with one 457 Interchangeable Point Assortment. Designed for rings with 2-7/16" to 4-1/2" Housing diameter.

455T Internal Snap Ring Pliers Only, No Points

456 External Snap Ring Pliers and Points

U.S. PAT. NO. 3,040,420
CAN. PAT. NO. 648,169

One 456T External Snap Ring Pliers only with one 457 Interchangeable Point Assortment. Designed for rings with 1-1/2" to 4-1/2" Shaft diameter.

456T External Snap Ring Pliers Only, No Points

457 Interchangeable Point Assortment

Plastic storage box containing 1 pair of jaw plate screws and one pair each of the following interchangeable points for use in 455T and 456T:

459P—.108-15 (Point diameter .108", angle 15°)

459P—.108-45 (Point diameter .108", angle 45°)

459P—.123-45 (Point diameter .123", angle 45°)

459P Interchangeable Points

For K-D 445T and 456T. Round head screw on each tempered jaw plate locks points in place. Point tips are ground with slight reverse taper for more secure grip in ring holes.

459P—.108-15 (Point diameter .108", angle 15°)

459P—.123-15 (Point diameter .123", angle 15°)

459P—.108-45 (Point diameter .108", angle 45°)

459P—.123-45 (Point diameter .123", angle 45°)

459P—.108-90 (Point diameter .108", angle 90°)

459P—.123-90 (Point diameter .123", angle 90°)

Minimum order, three pairs one type
108" Point identified by plain shank
123" Point identified by one notch on shank

449H Points for Holeless Snap Rings

For use with 446T
External Snap Ring Pliers.



459H Snap Ring Points for Holeless Rings

For use with
456 Snap Ring Pliers





Snap-Ring Merchandiser

Complete self-selling counter display and stocking container includes the following:

2067

1. One package each of 52 popular size Snap-Rings.
2. Each size Snap-Ring packaged in new plastic theft-proof resealable pouch.
3. Exact size silhouette printed on each package along with type number, shaft diameter, housing diameter, quantity and free diameter.
4. Counter display has pull-up index chart for quick and easy identification of Snap-Ring.
5. Snap-Ring packages are placed in display carton in indexed system relating to pull-up chart. Each package has code number.

New individual Snap-Ring package. Theft-proof, moisture-proof resealable plastic pouch. Order by Ring No.—see price sheet.

2066

Snap-Ring Assortment



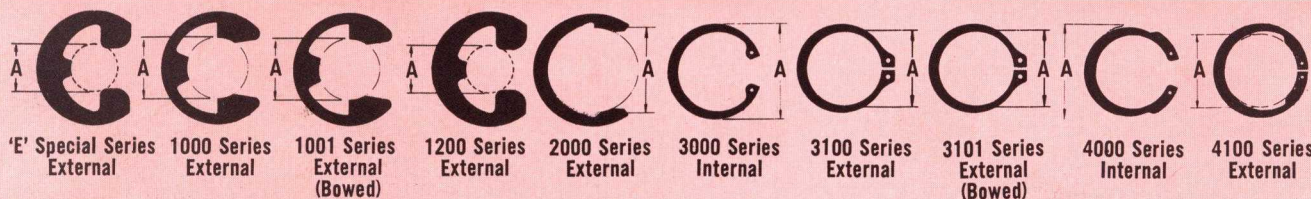
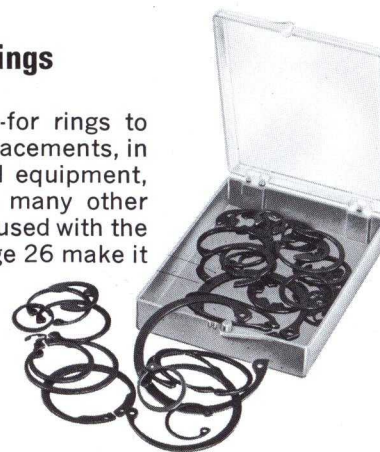
includes:

1. New, No. 2011, patented combination 2-in-1 Snap-Ring Pliers for both internal and external rings. One 447 interchangeable point assortment included . . .
2. Assortment of the 12 most needed Snap-Ring Sizes. Both internal and external. Each size ring packaged in new colorful, resealable, moisture proof plastic pouch . . .
3. Durable heavy-duty high impact plastic storage box with 12 ring compartments and tool storage area . . .

985

Emergency Snap-Rings

52 of the most-called-for rings to handle emergency replacements, in automobiles, industrial equipment, home appliances and many other fields. The chart below used with the silhouette chart on page 26 make it easy to identify the rings for application and for reordering. A silhouette chart is packed with each 985.

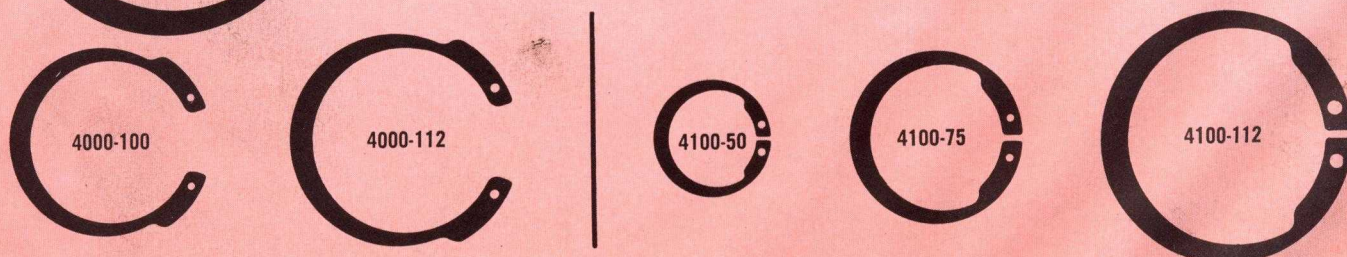
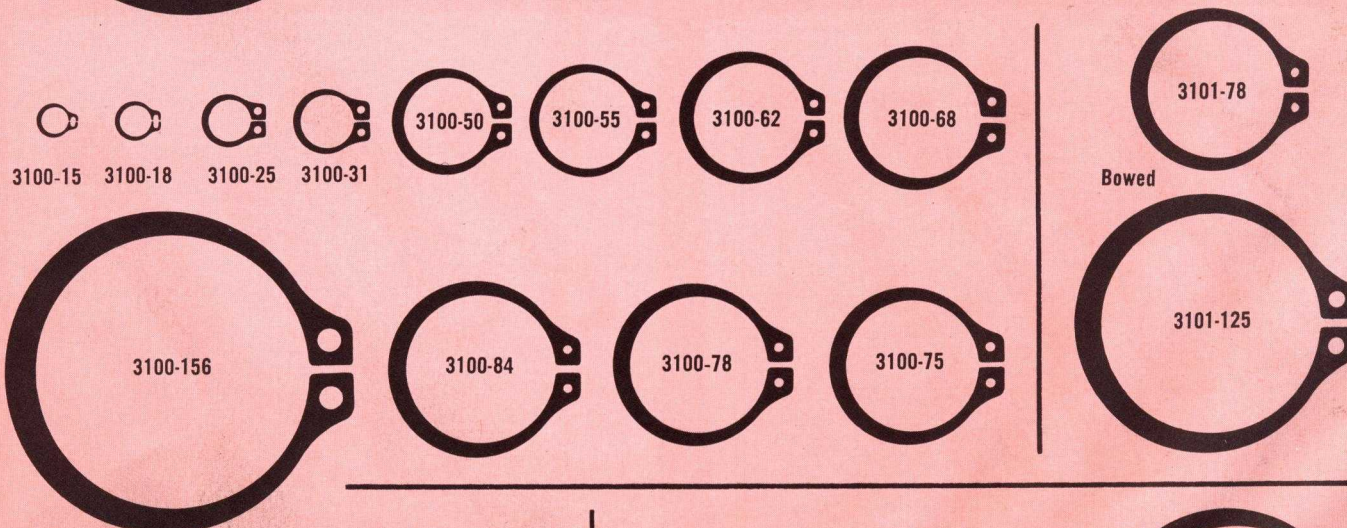
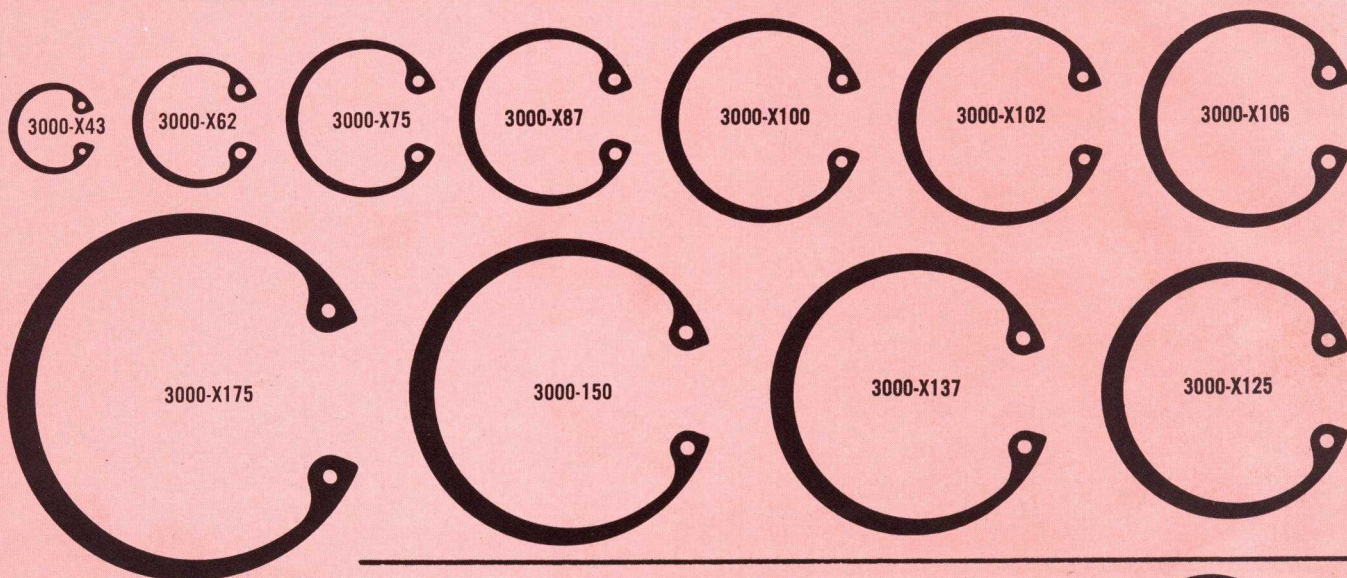
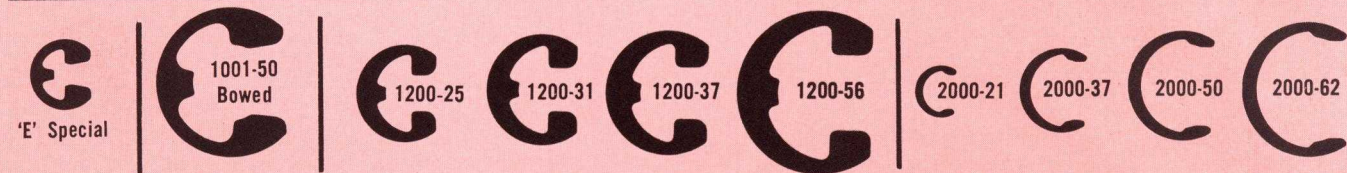
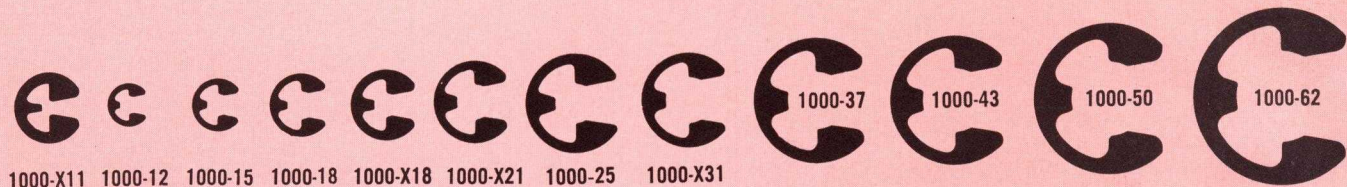


K-D Number	Shaft Diam. Inches	Housing Diam. Inches	Free Diam. 'A'	Pieces in Repl. Pkg.	K-D Number	Shaft Diam. Inches	Housing Diam. Inches	Free Diam. 'A'	Pieces in Repl. Pkg.	K-D Number	Shaft Diam. Inches	Housing Diam. Inches	Free Diam. 'A'	Pieces in Repl. Pkg.
'E' Special	3/8	....	.113	15	2000-21	7/32	....	.188	20	3100-31	5/16	....	.281	20
1000-X11	7/64	....	.076	20	2000-37	3/8	....	.328	20	3100-50	1/2	....	.461	12
1000-12	1/8	....	.094	20	2000-50	1/2	....	.441	15	3100-55	.551	....	.509	12
1000-15	5/32	....	.114	20	2000-62	5/8	....	.553	15	3100-62	5/8	....	.579	12
1000-18	3/16	....	.145	20	3000-X43	7/16	....	.482	20	3100-68	11/16	....	.635	12
1000-X18	3/16	....	.122	20	3000-X62	5/8	....	.694	12	3100-75	3/4	....	.693	12
1000-X21	7/32	....	.185	20	3000-X75	3/4	....	.831	12	3100-78	25/32	....	.722	12
1000-25	1/4	....	.207	20	3000-X87	7/8	....	.971	12	3100-84	27/32	....	.780	12
1000-X31	5/16	....	.243	20	3000-X100	1	....	1.111	10	3100-156	1-9/16	....	1.446	5
1000-37	3/8	....	.300	15	3000-X102	1.023	....	1.136	10	3101-78	25/32	....	.722	10
1000-43	7/16	....	.337	15	3000-X106	1-1/16	....	1.180	8	3101-125	1-1/4	....	1.156	6
1000-50	1/2	....	.392	15	3000-X125	1-1/4	....	1.388	7	4000-100	1	....	1.081	10
1000-62	5/8	....	.480	15	3000-X137	1-3/8	....	1.526	6	4000-112	1-1/8	....	1.217	7
1001-50	1/2	....	.392	15	3000-150	1-1/2	....	1.622	6	4100-50	1/2	....	.461	15
1200-25	1/4	....	.204	20	3000-X175	1-3/4	....	1.941	4	4100-75	3/4	....	.693	12
1200-31	5/16	....	.242	20	3100-15	5/32	....	.142	20	4100-112	1-1/8	....	1.041	6
1200-37	3/8	....	.292	15	3100-18	3/16	....	.168	20					
1200-56	7/8	....	.430	12	3100-25	1/4	....	.225	20					

K-D Snap Rings in 985 Emergency Package

EXACT SIZE SILHOUETTES

SNAP RINGS



K-D REVERSIBLE RATCHET WRENCHES

2060-S Impact Wrench Kit with 3/8" Square Drive

Great for handling the really tough jobs. A short twist of the Impact Driver sets the working cam and return spring. The anvil end is then struck a sharp blow with a hammer. Loosens screws and bolts even when rusted or wedged tight. Reversible action also tightens screws and bolts. Instructions stamped on tool.



2060-S Plastic Kit Includes:	No. 2060-4	No. 4 Phillips Dr.
2060 Impact Driver	No. 2060-5	5/16" wide slotted bit
2060-1 No. 1 Phillips Dr.	No. 2060-6	5/32" Clutch Head
2060-2 No. 2 Phillips Dr.	No. 2060-7	1/4" Clutch Head
2060-3 No. 3 Phillips Dr.	No. 2061	5/16 Hex Bit Holding Socket

Quality tools developed by auto mechanics for general service. Popular sizes of hex openings. 10 sizes of reversible Heads, graduated in sixteenths. Ratchet Teeth are closely spaced to permit short stroke in tight working conditions. Attractively finished with bright, rustproof cadmium plating. Sold individually or in complete Sets (below).

Reversible Ratchet Wrenches

5 Reversible Ratchet Wrenches, 10 sizes!

- 61** Length 3-7/8". 1/4" and 5/16" hex.
- 62** Length 5-1/4". 3/8" and 7/16" hex.
- 63** Length 6-1/2". 1/2" and 9/16" hex.
- 65** Length 7-7/8". 5/8" and 3/4" hex.
- 66** Length 9-3/16". 11/16" and 7/8" hex.



Complete Sets Packed in Kits

Sturdy white plastic rolls with black binding, transparent pockets, wrap-around ties.

- 60-3** SET Three Wrenches (Nos. 62, 63, 65)
- 60-4** SET Four Wrenches (Nos. 61, 62, 63, 65)
- 60-5** SET Five Wrenches (Nos. 61, 62, 63, 65, 66)

19 Ratchet Wrench Set

Hex sizes 3/8", 7/16", 1/2", 9/16" openings. Reversible Ratchets, no heads to change. Screw or nut held in place for upside down work like a box socket. Correctly tempered Heads and Ratchets. Set includes following:



- 21** Wrench 3/8" hex. 3" long.
- 22** Wrench 7/16" hex. 3-1/2" long.
- 23** Wrench 1/2" hex. 4" long.
- 24** Wrench 9/16" hex. 4-1/2" long.

ORDER INDIVIDUAL WRENCHES BY NUMBER.

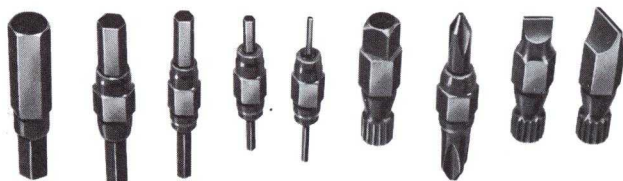
Ratchet Bit Sets

27

Plastic kit with 27W Reversible Ratchet Wrench and 4 bits: 27AB, 27BB, 27CB and 27DB described below.

27S

Plastic kit with 27W Reversible Ratchet Wrench and 4 bits: 27CB, 27EB, 27FB and 27GB described below. Meets government specifications.



27SG

Plastic kit with 27W Reversible Ratchet Wrench and 9 bits, as shown left to right in illustration and fully described below: 27KB, 27JB, 27CB, 27HB, 27EB, 27IB, 27FB, 27LB and 27GB.

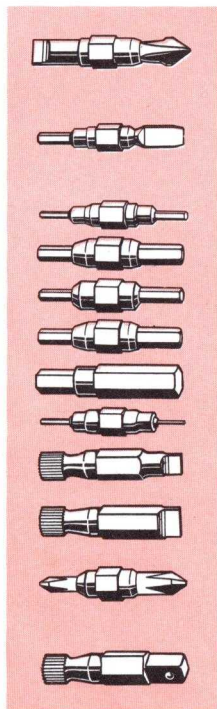
Does the work of sets containing 15 bits.

27W Reversible Ratchet Wrench

With 1/4" and 5/16" hex openings it will accommodate all the ratchet bits shown. 3-7/8" long, has short stroke.

K-D DOUBLE END BITS

All are for use in 27W Ratchet Wrench, are carefully machined and correctly tempered. All 1-1/2" long.



May be ordered individually.

27AB One end for Phillips, sizes 0 to 12, other end for slotted screws, bit 9/32" wide

27BB One end 1/8" hex key, other end for slotted screws, bit 3/16" wide

27CB Hex keys 5/64" and 3/32"

27DB Hex keys 5/32" and 3/16"

27EB Hex keys 1/8" and 5/32"

27FB Hex keys 3/16" and 7/32"

27GB Hex keys 1/4" and 5/16"

27HB Hex keys .050" and 1/16"

27IB For slotted screws, bit 1/4" wide

27JB For slotted screws, bit 3/8" wide

27KB One end for Phillips, sizes to No. 4. Other end for Phillips, sizes 5 to 9.

27LB Square drive Adaptor



5S "MITE-E-MITE" . . . A Real Brute

A mighty stubby, small enough to carry in your pocket, sturdy enough for screws up to size 16. Patented bit handles all sizes, 1-16, Phillips, R & P.



5R STUBBY . . . Does the Work of 5!

Reversible Bit. (Phillips head and slot type.) Red plastic handle can be imprinted. Ideal prize, premium, gift. Imprinting price on request.



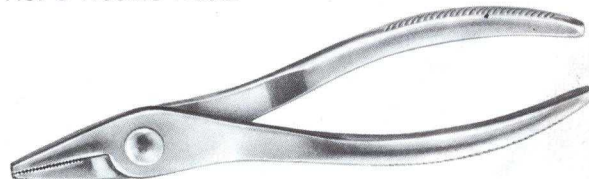
5W 3-IN-1

Knurled brass handle, 4-3/8" long. Hardened and ground blades. Extremely useful around home, shop, etc.



11K3 Pliers Set

Set contains No. 6 Standard Type, No. 7 Parrot Nose and No. 8 Needle Nose.



9 Flat Nose Pliers

Forged steel, tempered to correct hardness with bright cadmium finish. Same quality as 11K3 set.

K-D SOCKET SCREW KEYS

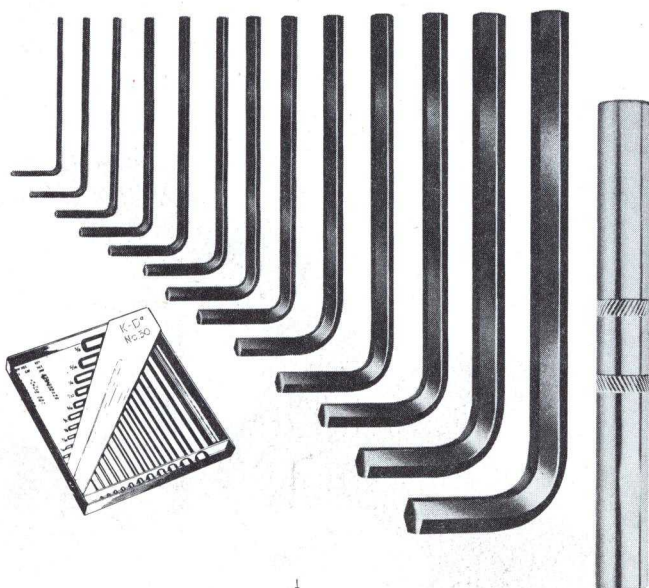
Individual Socket Screw Keys

See price list. Write for prices on special lengths and large quantities

Order by Hex Key Sizes under D

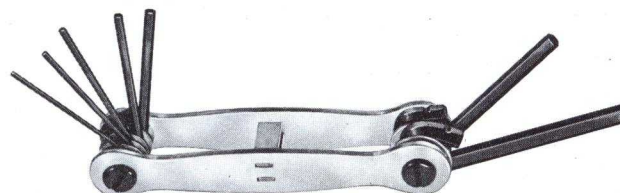
SOCKET SCREW SIZES						DIMENSION		
Cap Screws 1960 Series	Cap Screws 1936 Series	Socket Set Screws	Flat Head Cap Screws	Socket Shoulder Screws	Socket Pipe Plugs	D	C	B
#0	#0 & #1	#3 & #4	.....	.....	.....	.050"	1-5/8"	1/2"
#1	#2	#5 & #6	#4	.....	.....	1/16"	1-15/16"	9/16"
#2 & #3	#3 & #4	#8	#5 & #6	.....	.....	5/64"	2-3/16"	5/8"
#4 & #5	#5 & #6	#10 & #12	#8	.....	.....	3/32"	2-7/16"	5/8"
#6	.....	.....	.....	.....	.....	7/64"	2-1/2"	3/4"
.....	#8	1/4"	#10	1/4"	.....	1/8"	2-11/16"	3/4"
#8	.....	.....	.....	.....	.....	9/64"	2-3/4"	7/8"
#10	#10 & #12	5/16"	1/4"	5/16"	1/16"	5/32"	3"	7/8"
1/4"	1/4"	3/8"	5/16"	3/8"	1/8"	3/16"	3-5/16"	7/8"
.....	5/16"	7/16"	3/8"	.....	.....	7/32"	3-3/4"	1"
5/16"	.....	1/2" & 9/16"	7/16"	1/2"	1/4"	1/4"	4-1/8"	1-1/8"
3/8"	3/8" & 7/16"	5/8"	1/2"	5/8"	3/8"	5/16"	4-5/8"	1-1/4"
7/16" & 1/2"	1/2" & 9/16"	3/4"	5/8" & 3/4"	3/4"	1/2"	3/8"	5-1/8"	1-3/8"

Prices on special lengths and large quantities upon application.



29 Kit

Nine hex keys plus No. 28 Extension Handle in plastic kit. Key sizes: 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4".



40 Hex Key Pak

.050", 1/16", 5/64", 3/32", 1/8", 5/32", 3/16". Seven most popular sizes contained in a sturdy, carry-in-your-pocket handle. Strong assembly with bolts so keys can be replaced. 3-3/4" long when folded.



Extension Handles for Socket Screw Keys

For extra leverage on short end of keys when long end must be used to reach screw. Large counterbore in one end, two smaller counterbores in opposite end.

28 Handle

For keys 5/64" to 1/4". 3-7/8" long.

31 Handle

For keys .050" to 3/8". 5-3/16" long.

30 Set

Metal container with complete range of sizes (.050" to 3/8"), plus No. 31 Extension Handle. Easy to read chart shows both set screw and cap screw sizes with corresponding key sizes. Kit 5-3/8" x 5-3/4", rustproofed. Use Extension Handle on short end of key when long end is used to turn screw.

33

Socket Screw Key Counter Assortment

Bright metal display box with key size reference chart in lid. Packed as follows:

5 keys .050" 10 keys 3/16"
20 keys 1/16" 10 keys 7/32"
20 keys 5/64" 10 keys 1/4"
20 keys 3/32" 5 keys 5/16"
20 keys 1/8" 5 keys 3/8"
20 keys 5/32"

(Total 145 pcs.)

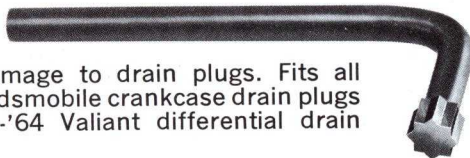


Lubrication Tools

413 Crankcase Drain Plug Wrench

Eliminates damage to drain plugs. Fits all 1961 to '64 Oldsmobile crankcase drain plugs and all 1962-'64 Valiant differential drain plugs.

Made of special heat treated steel and precision made to fit 8 point drain plug sockets.



414 "Universal" Internal Drain Plug Wrench Kit



Four double end and one single end socket type wrenches for removing internal Drain Plugs on Crankcase, Transmission and Differential. Works on 90% of all model cars requiring internal type wrenches.

2 square type wrenches, 1/4"-5/16" and 3/8"-1/2"
2 Hexagon wrenches 1/4"-5/16" and 3/8"-1/2"
1 Single end "special" 8 Point Wrench

47

Volkswagen Transmission Filler & Drain Plug Wrench

For removing and installing drain plug in VW. Special Steel, correctly tempered and rustproofed. 7" long.



416 Ramo-Matic

U.S. PAT. NO. 2,955,627
CAN. PAT. NO. 620,537



Ramo-Matic instantly frees frozen straight or angle type zerk fittings. Will blow out all hardened matter unless bushing is completely turned, to block opening. Damaged fittings are many times resealed, automatically. Handy pocket size measures 5" x 1/2".

Metric Hex Keys

For imported cars, etc. Made to close tolerances of select tool steel and properly tempered for long service life. Professional quality, not "price" items. Available individually in the following sizes:

2MM 3MM 5MM 8MM 12MM 17MM
2.5MM 4MM 6MM 10MM 14MM 19MM

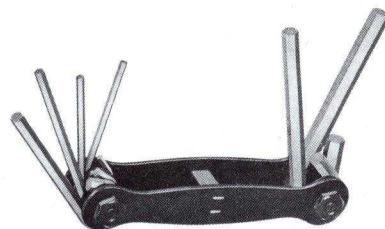
Order by MM size

45

Pak

2MM . . . 2.5MM
3MM . . . 4MM
5MM . . . 6MM

Six popular sizes in strong handle, small enough to carry in your pocket. Assembled with bolts so keys can be replaced. Only 3-7/8" long folded.

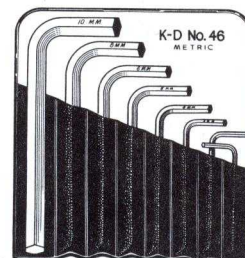


46

Set

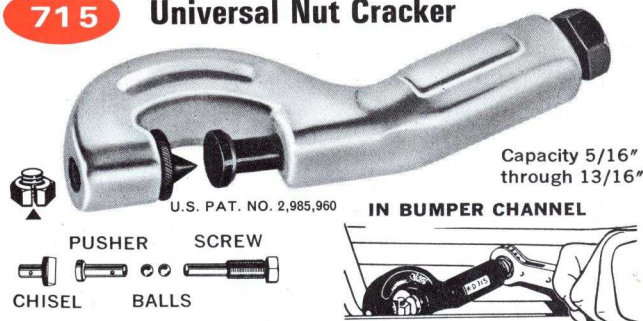
Eight popular sizes in handy plastic kit. 2MM, 2.5MM, 3MM, 4MM, 5MM, 6MM, 8MM, 10MM.

For imported cars, machinery, appliances.



715

Universal Nut Cracker



Capacity 5/16" through 13/16"

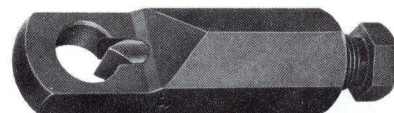
U.S. PAT. NO. 2,985,960
PUSHER SCREW
CHISEL BALLS

IN BUMPER CHANNEL

Capacity 5/16" through 13/16". Unique compound angle design with 360° rotating cutter. Will work in places inaccessible to any other. Parallel action of pusher, cracks nuts with no danger of damage to bolt threads . . . cutter never touches the bolt. Rugged aircraft steel, drop-forged frame guaranteed for life. Chisel, pusher, balls and screw replaceable 6-3/4" long.

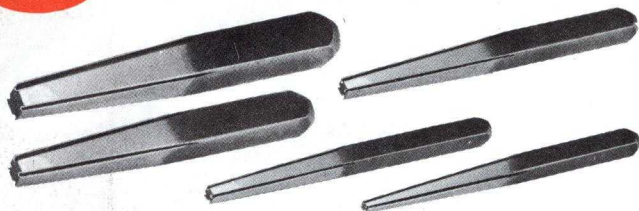
710

Nut Cracker



Cracks rusted, stubborn nuts on SHOCKS, MUFFLERS, TAIL PIPES, RUNNING GEAR. Strong hex steel construction with hardened tool steel chisel propelled by extra large screw. 4" long.

720 Precision Screw Extractors

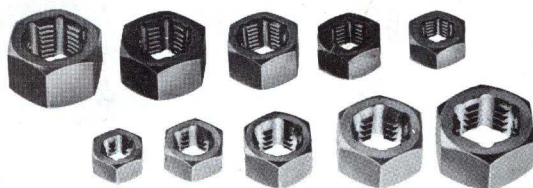


For Removal of Broken Studs, Set Screws, Pipe and Alemite Fittings. The K-D No. 720 Screw Extractor Set, packaged in a Royal Blue plastic kit, is printed with complete information on bolt size, drill size, minimum depth of hole and pipe size.

No.	U.S.S. Screw, Stud or Bolt Size	Drill Size	Min. Depth of Hole	Pipe Size
A	1/4, 5/16	1/8	3/8	—
B	3/8	3/16	1/2	—
*C	7/16	15/64	1/2	1/8
D	1/2, 9/16	5/16	1/2	1/4
E	5/8	3/8	5/8	3/8

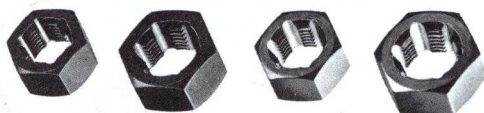
*For broken Alemite fittings

725 K-D Rethreader Set



1/4"—5/16"—3/8"—7/16"—1/2" in BOTH NF and NC. NF (Fine) Dies are "gun barrel" blue; NC (Coarse) are copper coated for easy identification. Dies are nut-size for use with any wrench. Packed in clear Plastic Box.

726 Wheel Stud Rethreader Set



4-piece Die Set for Restoring 1/2" and 9/16" left hand and right hand threads. Packaged in clear Plastic Box.

727 Armature Rethreader Set



1/2 x 20, .665 x 20 right hand. *.665 x 20 left hand. For restoring damaged armature shaft threads. Packaged in clear Plastic Box.

*Needed for Corvair Generator Armature Shafts.

2006 GM Rethreader

3/4"—20 thread for front wheel spindles of all GM cars—3 per card.



495 Cable Coiling Pliers

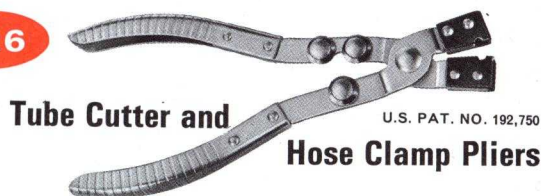


Repair Control Cables in Half the Time!

Mechanics can easily repair control cables that operate Air Vents, Hood Release, Heater, Air Conditioner, Carburetor, etc.—without replacing the entire cable assembly. Works on all makes and models of Passenger Car and Light Truck control cables using the Coiling principle.

496 Heavy Duty Cable Wire specially engineered for control cable use. Comes in 60 ft. rolls, wound on handy dispenser. Packaged in Kraft Envelopes.

426



Tube Cutter and

Hose Clamp Pliers

Combination Cutting Tool and Hose Clamp Pliers makes installation of gasoline filters a breeze. 3 steel cutting wheels cut both Gasoline and Oil line tubing 3/16" through 5/16" in diameter. Installs and removes small hose clamps. Slim design to reach into tight places.

99

Convertible Hacksaw Frame



The Saw that "CUTS AROUND CORNERS". Spans obstructions and projections on difficult jobs.

All steel frame with quick blade change feature. Stops to fit 3", 8", 10", 12" blades.

Saws in places impossible to reach with conventional frames when using 3" blade. Streamlined Backbone saws in openings down to 3/16" wide! One 12" blade furnished.

K-D "Flex-Tung" Hacksaw Blades

Finest quality, correctly tempered. One dozen to a package.

No. 13—3" No. 15—12" No. 16—10"

55

S.A.E. Washer Assortment

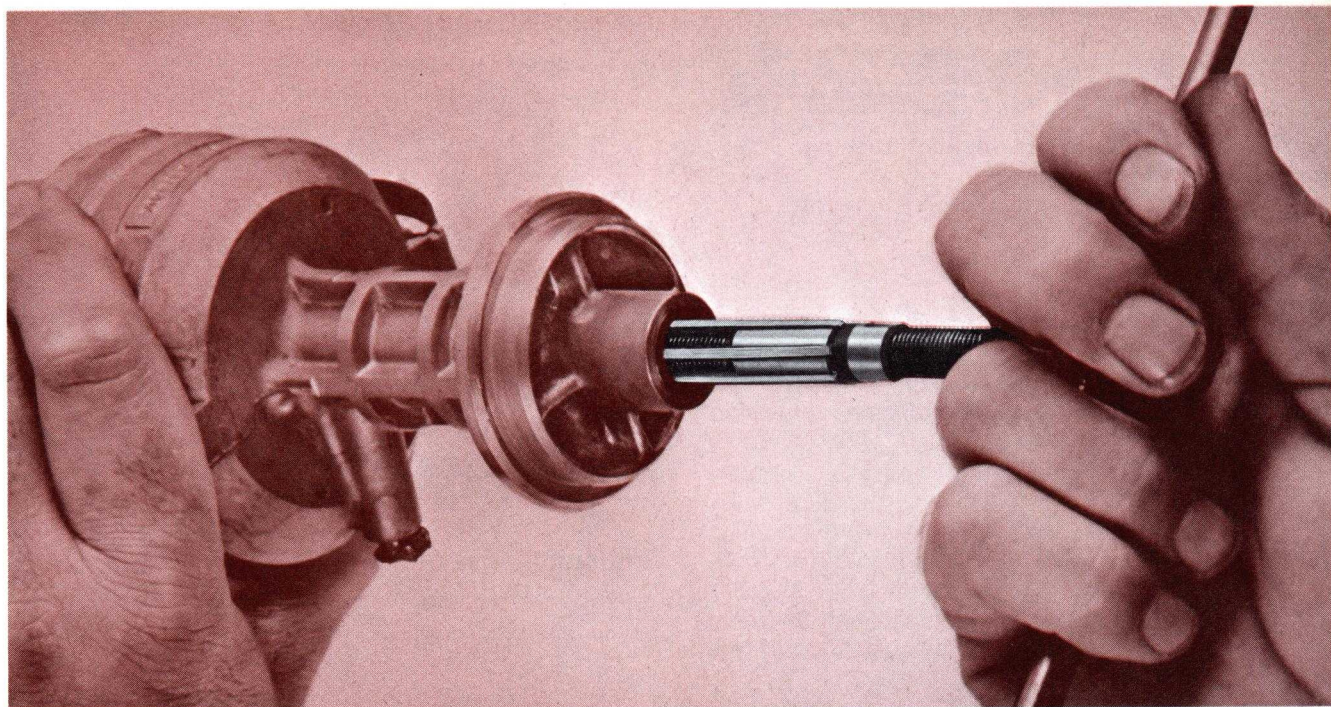
One half pound each of 3/16", 1/4", 5/16", 3/8", 7/16" and 1/2", all bright cadmium finish. A very attractive and useful package for shop, home, farm.



242 Parts Cleaning Brush



Hard wood handles, with durable bonded nylon bristles.



K-D PRECISION REAMERS

Applications of the Various Styles of Reamers

3002 through 3018 and 3040 through 3061 series—are used on automotive repairs for cars, trucks, etc., agricultural maintenance, including all types of farm implements, tractors, etc. All types of road building machinery, bulldozers, scrapers, earth movers, etc.

3040 through 3061 series—are used extensively in factory maintenance of all types of machinery.

3021 through 3038 series—are used in all Electrical Service Stations and factories having their own electrical service departments.

Solid Type King Bolt Bushing Series—are used in automotive and agricultural maintenance on cars, trucks, and tractors for king bolt bushing reaming.

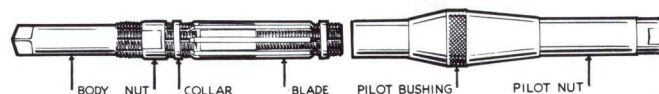
3089 through 3124 series—are used for reaming valve guides on all cars, trucks, tractors, small lawn mower engines and the integral valve guides on late model cars.

2043 and 2044 Reamer—is a must for every mechanic. Its usefulness is unlimited in all fields of repair service.

3068 to 3074 Series (Adjustable)—are used in automotive service on all valve guide reaming, carburetor rebuilding, rebushing small generators, and starters, replacing worn door hinges with oversize pins.

Interchangeability of nuts and collars on many numbers, eliminates carrying excessive stocks. See price sheet for listing of Reamers that are interchangeable. Blades and Bushings are not interchangeable. When ordering sets of Blades or Bushings, use catalog numbers of the Reamers for which Blades or Bushings are required.

Steel Mandrels and Hand Reamers 3145 through 3254—Used primarily in Industrial Applications.

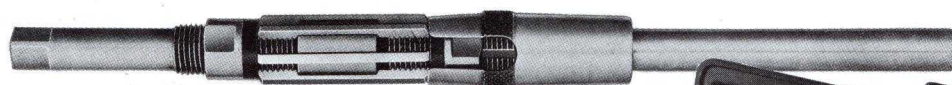


Note: When ordering Reamers available in High Speed Steel Blades, specify by placing prefix HS before the number of the Reamer—if High Speed is desired.

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Precision Pilot Reamers



With Double Taper, Countersunk Pilot Bushing
Perfect alignment

The precision pilot way is the best way to ream

King Bolt Bushings
Piston Pin Bushings
Pitman Arm Bushings

Part of the pilot bushing shown above is cut away. This shows how the bushing will slide over the nut and collar of the reamer and follow after the blades as they are adjusted, making a very practical piloted reamer for reaming short bushings.

The blades in these reamers are placed at the proper angle to give a smooth shearing cut.

Retaining collars are placed at each end of the blades to protect the reamer nuts, hold the blades firm and allow the reamers to be easily adjusted.

Each reamer adjusts to the contracted size of the next larger reamer so that the seventeen reamers listed will ream all sizes from 7/16" to 2-1/16".

3000 Set of four reamers, 3002 to 3005 (cutting range 7/16" to 11/16") in plastic box.

3001 Set of seven reamers, 3006 to 3012 (cutting range 11/16" to 1-1/8") in metal box.



No. 3000

Individual Reamers

Number	Size	Inches	Number	Size	Inches
3002	7/16	1/2	3011	.985	1-1/16
3003	1/2	9/16	3012	1-1/16	1-1/8
3004	9/16	5/8	3013	1-1/8	1-1/4
3005	5/8	11/16	3014	1-1/4	1-3/8
3006	11/16	3/4	3015	1-3/8	1-1/2
3007	.730	13/16	3016	1-1/2	1-5/8
3008	13/16	7/8	3017	1-5/8	1-13/16
3009	.860	15/16	3018	1-13/16	2-1/16
3010	.915	1			

Available with High Speed Steel Blades.

Extra Long Aligning Reamers

For Electric Motor Bearings.

And any other job where it is necessary to bring two bearings into perfect alignment.

Available with High Speed Steel blades



3020

Set of 1/2", 5/8", 11/16", 3/4", 13/16" and 1" Reamers in metal box.

Number	Size	Length Overall Inches		Blades	No. of Blades	Length of Pilot includ. Nut & Collar Inches
		Inches	Reamer			
3021	7/16	1/2	13-1/4	2	5	8-7/16
3022	1/2	9/16	15	2	6	10-3/4
3023	9/16	5/8	15	2	6	10-3/4
3024	5/8	11/16	16	2	7	11-3/4
3025	21/32	23/32	16	2	7	11-3/4
3026	11/16	3/4	17	2	7	12-3/4
3027	3/4	13/16	18	2	7	13-1/2
3028	25/32	27/32	18	2	7	13-1/2
3029	13/16	7/8	19	2	7	14-1/2
3030	7/8	15/16	19	2	7	15-1/2
3031	15/16	1	20	2	7	16-1/2
3032	1	1-1/16	21	2	7	16-1/2
3033	1-1/32	1-3/32	21	2	7	16-1/2
3034	1-1/16	1-1/8	21	2	7	16-1/2
3035	1-1/8	1-1/4	24	3	7	17-1/2
3036	1-1/4	1-3/8	24	3	7	17-1/2
3037	1-3/8	1-1/2	24	3	7	17-1/2
3038	1-1/2	1-5/8	24	3	7	17-1/2

Adjustable Reamers and Reamer Pilots



Reamers

Number	Size	Inches	Number	Size	Inches
3040	1/4	9/32	3044	3/8	13/32
3041	9/32	5/16	3045	13/32	7/16
3042	5/16	11/32	3046	7/16	15/32
3043	11/32	3/8			

Available with High Speed Steel Blades

3062

Set of eight reamers (without pilots) numbers 3047 to 3054, cutting range 15/32" to 1-1/16" in metal box.

3063

Set of eight reamers with pilots attached numbers 3047 to 3054, cutting range 15/32" to 1-1/16" in metal box.

3064

Set of seven reamers (without extension shanks) numbers 3040 to 3046, cutting range 1/4" to 15/32", in plastic box.

Reamers with Pilot Attached

Number	Size	Inches	Number	Size	Inches
3047	15/32	17/32	3054	15/16	1- 1/16
3048	17/32	19/32	3055	1- 1/16	1- 3/16
3049	19/32	21/32	3056	1- 3/16	1-11/32
3050	21/32	23/32	3057	1-11/32	1-17/32
3051	23/32	25/32	3058	1-17/32	1-25/32
3052	25/32	27/32	3059	1-25/32	2- 7/32
3053	27/32	15/16	3060	2- 7/32	2- 3/4
			3061	2- 3/4	3-11/32

Pilots and Reamers available separately—see price list

3065

Set of twelve reamers (without pilots) numbers 3047 to 3058, cutting range 15/32" to 1-25/32", in metal box.

3066

Set of twelve reamers with pilots attached numbers 3047 to 3058, cutting range 15/32" to 1-25/32" in metal box.

Valve Guide Reamers

Adjustable Blade Type With Extension Shank

Extension shanks available separately—see price list

Number	Size	Inches	Number	Size	Inches
3068	1/4	9/32	3072	3/8	13/32
3069	9/32	5/16	3073	13/32	7/16
3070	5/16	11/32	3074	7/16	15/32
3071	11/32	3/8			



3067

Set of seven reamers with extension shanks numbers 3068 to 3074 inclusive, range 1/4" to 15/32", in plastic box.

Valve Guide Reamers . . . Solid Types



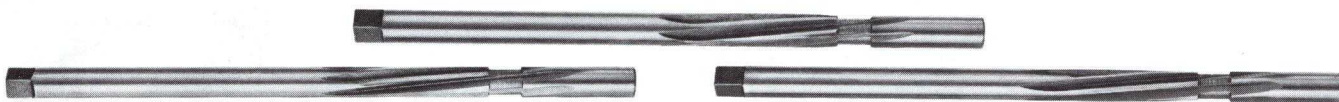
Standard sizes for domestic and foreign cars and trucks. Oversizes for engines with integral cast valve guides.

Number	Diameter Fractional	Diameter Decimal	Diameter Metric
3089		.2362	6.00
3090	1/4"	.250	6.35
3091		.2756	7.00
3092	9/32"	.2812	7.14
3093	5/16"	.3125	7.94
3094	5/16"+.003	.3155	8.00
3095	5/16+.005	.3175	8.06
3096	5/16+.015 (21/64")	.3275	8.32
3097	5/16+.030	.3425	8.70
3098	11/32"	.3437	8.73
3099	11/32+.003	.3467	8.81
3100	11/32+.010	.3537	8.98
3101		.3543	9.00
3102	11/32+.015 (23/64")	.3587	9.11
3103	11/32+.020	.3637	9.24
3104	.373 Std.	.373	9.48
3105	11/32+.030	.3737	9.50
3106	3/8"	.375	9.58

Number	Diameter Fractional	Diameter Decimal	Diameter Metric
3107	.373+.003	.376	9.55
3108	3/8+.003	.378	9.60
3109	3/8+.005	.380	9.65
3110	.373+.015	.388	9.86
3111	3/8+.015 (25/64")	.390	9.91
3112	.373+.020	.3937	10.00
3113	3/8+.020	.395	10.03
3114	.396 Std.	.396	10.06
3115	.373+.030	.403	10.24
3116	3/8+.030	.405	10.29
3117	13/32"	.4062	10.32
3118	7/16	.4375	11.11
3119	7/16+.003	.4405	11.19
3120	7/16+.015 (29/64")	.4525	11.50
3121	7/16+.030	.4675	11.87
3122	1/2"	.500	12.70
3123	9/16"	.5625	14.29
3124	5/8"	.625	15.88

Available in High Speed Steel.

Valve Guide Reamer Sets . . . Solid Type



Special Sets For Engines With Integral Cast Valve Guides . . . Also Standard Sets.

Many late model Cars & Trucks do not use removable valve guides, therefore, when the guides become worn these reamers are necessary to ream them to accom-

modate the oversize valve stems furnished by the manufacturers.

3082 For Comet, Falcon, Ford, Meteor & Econoline using 144, 170, 221, 260 engines. Contains 3 reamers, numbers 3094 (5/16" + .003), 3096 (5/16" + .015), 3097 (5/16" + .030), in plastic box.

3083 For Chevy II; Chevrolet Cars & Trucks using 230, 235, 265, 283, 292, 327 engines, except exhaust guides on 1962-63 Corvette 340-360 H.P., Edsel, Ford Cars, Trucks & Tractors using 215, 223, 239, 256, 279, 312, 317 and 272, 292 engines except Trucks with 7/16" exhaust guides; intake guides on some 302 & 332 Truck engines. G.M.C. Trucks using 316, 336, 347 engines. Lincoln & Continental 1952-57. All 3087 Mercury 1954-56 and 223, 292, 312, 368 engines. Rambler. Contains 3 reamers, nos. 3099 (11/32" + .003), 3102 (11/32" + .015), 3105 (11/32" + .030), in plastic box.

3084 For Chevrolet Cars & Trucks using 348, 409 engines, except exhaust guides on 348 H.D. engines. 1962-63 Corvette exhaust guides on 340-360 H.P. Nash and Hornet 5580-5680. Studebaker 352 engines. White P.D.Q. 96A, 97A, 98A engines. Contains 3 reamers, numbers 3108 (3/8" + .003), 3111 (3/8" + .015), 3116 (3/8" + .030), in plastic box.

3085 For Chrysler Cars, Industrial & Marine Engines. Dodge Cars & Trucks, Dart, DeSoto, Lancer, Plymouth & Valiant. Contains 3 reamers, numbers 3109 (3/8" + .005), 3111 (3/8" + .015), 3116 (3/8" + .030), in plastic box.

3086 For Chevrolet Truck exhaust guides on 348 H.D. engines. Ford Trucks using 401, 477, 534 engines; and exhaust guides on 302, 332, and 272, 282 H.D. engines. Contains 3 reamers, numbers 3119 (7/16" + .003), 3120 (7/16" + .015), 3121 (7/16" + .030), in plastic box.

3087 Set of 5 standard size reamers, numbers 3093 (5/16"), 3098 (11/32"), 3106 (3/8"), 3118 (7/16"), 3122 (1/2"), in plastic box.

3088 Set of 4 standard size reamers, numbers 3093 (5/16"), 3098 (11/32"), 3106 (3/8"), 3118 (7/16"), in plastic box.

Rocker Arm Stud Hole Reamer . . . Solid Type



3075 Chevy II, All Chevrolet V8's & 1963 Six, Pontiac 1955-63 Inclusive. G.M.C. Truck V8-288, 316, 336, 347 engines. .003" Oversize.

3076 Chevy II, All Chevrolet V8's & 1963 Six, Pontiac Tempest 1964. G.M.C. Truck V8-288, 316, 336, 347 engines. .013" Oversize.

Mack Truck King Bolt Bushing Reamers



Two step, solid type, designed to ream both upper and lower bushings in one operation, assuring perfect alignment.

Note that it is possible to have various axle arrangements using different bushings on the same chassis model. Therefore, reamers can only be selected according to bushing numbers.

Bushing numbers are listed for your convenience in selecting the proper reamer.

Number	Upper Bushing Number	Lower Bushing Number	Reamer Front Size	Reamer Back Size
3077	80AX466 80AX469 80AX516	80AX467 80AX467 80AX517	1.2495	1.515
3078	80AX463 80AX514	80AX462 80AX515	1.255	1.515
3079	80AX464 80AX468	80AX465 80AX465	1.3535	1.6235
3080	80AX471	80AX470	1.749	2.100
3081	80AX511	80AX512	2.001	2.399

King Bolt Bushing Reamers . . . Solid Type



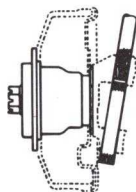
For Popular Cars and Trucks

Milled flutes on the front end remove burrs or excess metal and allow the pilot to enter freely. Both ends of the reamer are ground to act as pilots.

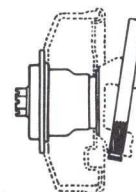
- | | |
|---|--|
| <p>3125 Ford Econoline 1961-67. 7425</p> <p>3126 Volkswagen 1947-65, except transport 710</p> <p>3127 All A, B, 6 & V-8 Ford Pass. Cars 1928-53; 1/2, 3/4, 1 Ton, F1, F2, & F3 Trucks 1928-52. Mercury Cars 1939-48 & 1952-53 8135</p> <p>3128 Ford Trucks 1938-47, 1-1/2 & 2 Ton; 1948-52 F4, F5, F6; 1953-56 C500-600; 1953-62 B-F-P-500 & 600 Series (except H.D. Axle). 1.130</p> <p>3129 Ford Trucks 1953-68, F100 and F250 1/2 and 3/4 Ton (except 4 wheel drive), 1964-67 P100 Parcel Delivery 1/2 Ton 8605</p> <p>3130 Chevrolet Trucks 1940-60, 3/4, 1, 1-1/2, 2, 2-1/2 Ton, C.O.E. Heavy Duty, Dubl-Duty and School Bus (except 9000 Lb., Tandem Axles and 1957-59 with Tapered Bolts); 1960-67 1-1/2 and 2 Ton Dubl-Duty; 1961-64 3/4, 1 Ton Dubl-Duty; 1963-67 Series C, L and S50; C, D, L, M, S and T60 with 5000 Lb. Axle. G.M.C. Series 280, 300, 340, 350, 370 and International Trucks using 1.1095" and 1.110" King Bolts 1.111</p> <p>3131 Chevrolet: Cars 1940-54; except 1940 KB; Corvette 1953-62; Trucks 1/2 Ton 1941-</p> | <p>59, 3/4, 1 Ton 1941-42. G.M.C. 100 Series 1941-59. Packard Cars 1942-56. 867</p> <p>3132 Lincoln & Continental 1942-51. Mercury 1949-51. Plymouth, Dodge, DeSoto, Chrysler, 7 & 8 Pass., Heavy Duty. Dodge, Ford Parcel Delivery, Studebaker, Trucks using .936" & .9365" King Bolts. 938</p> <p>3133 Chevrolet 3/4, 1, 1-1/2 Ton 1943-59 (except Heavy and Dubl-Duty, C.O.E. and School Bus) 1955 thru 1966 3/4 and 1 Ton (except Heavy Duty 1955-59). 1963-67 Series C, L and S40-50 (except 5000 Lb. Axle). G.M.C. using .921" King Bolts 9225</p> <p>3134 Same as No. 3133 .010" Oversize 9325</p> <p>3135 Ford Trucks 1953-68, F350, P350-400-3500-4000 924</p> <p>3136 Plymouth, Dodge, DeSoto, Chrysler, 1940-56 (except 7&8 Pass. Heavy Duty). All Kaiser, Frazier & Henry J 1946-55. 1/2, 3/4 & 1 Ton Dodge Trucks using .795" King Bolts 7965</p> <p>3137 Buick 1941-56. Oldsmobile 1937-56. Pontiac 1941-57 863</p> |
|---|--|

King Bolt Bushing Reamer Sets

FIRST OPERATION
Reaming upper bushing while
piloting in lower bushing.



SECOND OPERATION
Reaming lower bushing while
piloting in upper bushing.



- | | |
|---|---|
| <p>3138 Set of two reamers, No. 3138-1 and No. 3138-2. For Timken Axles 30000 & 31000 Series. Brockway, Divco, Mack, Reo, Studebaker, White Trucks using 1.109" and International using 1.1095" King Bolts 1.1105</p> <p>3139 Set of 2 reamers, No. 3139-1 and No. 3139-2. For Timken Axles FC900, 32000 & 33000 Series. Clark Axle F553. Available, Brockway, Corbitt, Dart, Diamond T, Dodge, Duplex, Federal, Ford Truck & Bus, G.M.C. Truck & Coach, International, Mack, Reo, White Trucks using 1.234" & G.M.C. using 1.2345" King Bolts 1.2355</p> | <p>3140 Set of two reamers, No. 3140-1 and No. 3140-2. For Timken Axles 35000 Series. Autocar. Available, Biederman, Brockway, Corbitt, Dart, Diamond T, Dodge, Duplex, Federal, International, Mack, Reo, Sterling, Ward LaFrance Trucks using 1.359" & 1.3595" King Bolts 1.3605</p> <p>3141 Set of two reamers, No. 3141-1 and No. 3141-2. For Timken Axles 36000 Series, also Nos. 16601-2-3-4-5-6-8, 26060-61. Diamond T, Federal, G.M.C. Truck & Coach, International, Kenworth, Mack, Peterbilt, Reo, Sterling using 1.484" King Bolts. 1.4855</p> |
|---|---|

Drive-M-All**Bushing Removing and****Inserting Sets . . .**

The size is stamped on all bushing adaptors to help select the correct unit.
For Automobile, Truck, Bus, Tractor, Farm, Road and Construction Equipment Bushings.

3142

Complete Bushing Removing and Inserting Set, in plastic box, as illustrated.

Parts for No. 3142 Set

Number	Description	Small Diameter Inches	Large Diameter Inches
3142-1	Bushing Adaptor	3/8	7/16
3142-2	" "	7/16	1/2
3142-3	" "	1/2	9/16
3142-4	" "	9/16	5/8
3142-5	" "	39/64	43/64
		5/8	11/16
3142-6	" "	5/8	3/4
3142-7	" "	11/16	13/16
3142-8	" "	47/64	55/64
		3/4	7/8
3142-9	" "	13/16	15/16
3142-10	" "	55/64	63/64
		7/8	1

Number	Description	Small Diameter Inches	Large Diameter Inches
3142-11	Bushing Adaptor	15/16	1-1/16
3142-12	" "	1	1-1/8
3142-13	" "	1-1/16	1-3/16
3142-14	" "	1-1/8	1-1/4
3142-15	" "	1-3/16	1-5/16
3142-16	" "	1-1/4	1-3/8
3142-17	No. 1 Driver (Small).		
3142-18	No. 2 Driver (Medium).		
3142-19	No. 3 Driver (Large).		
3142-20	Nut for No. 1 & 2 Driver.		
3142-21	Nut for No. 3 Driver.		

3143

Complete Bushing Removing and Inserting Set, in plastic box.

Parts for No. 3143 Set Heavy Duty Drive-M-All

Number	Description	Small Diameter Inches	Large Diameter Inches
3143-1	Bushing Adaptor	1-5/16	1-7/16
3143-2	" "	1-11/32	1-1/2
3143-3	" "	1-7/16	1-9/16
3143-4	" "	1-1/2	1-5/8
3143-5	" "	1-9/16	1-11/16

Number	Description	Small Diameter Inches	Large Diameter Inches
3143-6	Bushing Adaptor	1-19/32	1-3/4
3143-7	" "	1-3/4	1-7/8
3143-8	Driver		
3143-9	Driver Nut		

Reamer Cutting Oil

Recommended For Reaming—Tapping—Threading—Turning—Drilling. A Must When Reaming Steel and Alloy Bronze.

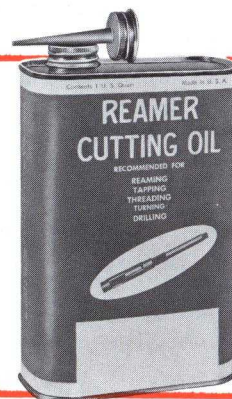
3144 Reamer Cutting Oil with squirt spout. Packed 6 one qt. cans to a carton.

3144-1 Reamer Cutting Oil with squirt spout. Packed 12 one qt. cans to a carton.

3144-2 Reamer Cutting Oil 1 gallon can.

3144-3 Reamer Cutting Oil 5 gallon can.

2098 Reamer Cutting Oil 1 quart can.



Steel Mandrels . . . Hardened and Ground



Standard Taper: .0005 Per 1"

Small End: 1/8" to 1" Incl. .0005
(undersize)

Small End: 1-1/16" to 3" Incl. .001
(undersize)

Number	Diameter Inches	Length Overall Inches
3145	1/8	2-1/2
3146	5/32	3
3147	3/16	3
3148	7/32	3-3/4
3149	1/4	3-3/4
3150	9/32	4
3151	5/16	4
3152	11/32	4-1/4
3153	3/8	4-1/4
3154	13/32	4-1/2
3155	7/16	4-1/2
3156	15/32	5
3157	1/2	5
3158	17/32	5-1/4
3159	9/16	5-1/4
3160	19/32	5-1/2
3161	5/8	5-1/2
3162	21/32	5-3/4
3163	11/16	5-3/4
3164	23/32	6
3165	3/4	6
3166	25/32	6-1/4
3167	13/16	6-1/4
3168	27/32	6-1/2
3169	7/8	6-1/2
3170	29/32	6-3/4
3171	15/16	6-3/4
3172	31/32	7
3173	1	7
3174	1-1/16	7-1/4
3175	1-1/8	7-1/2
3176	1-3/16	7-3/4
3177	1-1/4	8
3178	1-5/16	8-1/4
3179	1-3/8	8-1/2
3180	1-7/16	8-3/4
3181	1-1/2	9
3182	1-9/16	9-1/4
3183	1-5/8	9-1/2
3184	1-11/16	9-3/4
3185	1-3/4	10
3186	1-13/16	10-1/4
3187	1-7/8	10-1/2
3188	1-15/16	10-3/4
3189	2	11
3190	2-1/8	11-1/2
3191	2-1/4	12
3192	2-3/8	12
3193	2-1/2	12-1/2
3194	2-5/8	12-1/2
3195	2-3/4	13
3196	2-7/8	13
3197	3	13

These mandrels are made of high quality tool steel, heat treated and accurately ground to size. They are slightly tapered and the size is marked on the large end.

All sizes and dimensions not listed above are special and prices will be furnished on request.

Hand Reamers . . . Carbon Steel



Straight Shank

Straight Flute

Number	Diameter Inches	Length of Flute Inches	Length Overall Inches
3198	1/8	1-1/2	3
3199	9/64	1-5/8	3-1/4
3200	5/32	1-5/8	3-1/4
3201	11/64	1-3/4	3-1/2
3202	3/16	1-3/4	3-1/2
3203	13/64	1-7/8	3-3/4
3204	7/32	1-7/8	3-3/4
3205	15/64	2	4
3206	1/4	2	4
3207	17/64	2-1/8	4-1/4
3208	9/32	2-1/8	4-1/4
3209	19/64	2-1/4	4-1/2
3210	5/16	2-1/4	4-1/2
3211	21/64	2-3/8	4-3/4
3212	11/32	2-3/8	4-3/4
3213	23/64	2-1/2	5
3214	3/8	2-1/2	5
3215	25/64	2-5/8	5-1/4
3216	13/32	2-5/8	5-1/4
3217	27/64	2-3/4	5-1/2
3218	7/16	2-3/4	5-1/2
3219	29/64	2-7/8	5-3/4
3220	15/32	2-7/8	5-3/4
3221	31/64	3	6
3222	1/2	3	6
3223	17/32	3-1/8	6-1/4
3224	9/16	3-1/4	6-1/2
3225	19/32	3-3/8	6-3/4
3226	5/8	3-1/2	7
3227	21/32	3-11/16	7-3/8
3228	11/16	3-7/8	7-3/4
3229	23/32	4-1/16	8-1/8
3230	3/4	4-3/16	8-3/8
3231	25/32	4-3/8	8-3/4
3232	13/16	4-9/16	9-1/8
3233	27/32	4-11/16	9-3/8
3234	7/8	4-7/8	9-3/4
3235	29/32	5	10
3236	15/16	5-1/8	10-1/4
3237	31/32	5-5/16	10-5/8
3238	1	5-7/16	10-7/8
3239	1-1/16	5-5/8	11-1/4
3240	1-1/8	5-13/16	11-5/8
3241	1-3/16	6	12
3242	1-1/4	6-1/8	12-1/4
3243	1-5/16	6-1/4	12-1/2
3244	1-3/8	6-5/16	12-5/8
3245	1-7/16	6-7/16	12-7/8
3246	1-1/2	6-1/2	13
3247	1-9/16	6-1/2	13
3248	1-5/8	6-1/2	13
3249	1-11/16	6-3/4	13-1/2
3250	1-3/4	6-3/4	13-1/2
3251	1-13/16	6-3/4	13-1/2
3252	1-7/8	7	14
3253	1-15/16	7	14
3254	2	7	14

All sizes and dimensions not listed above are special and prices will be furnished on request.



All K-D Tools are guaranteed against defective material or workmanship. Any tool showing a defect in material or workmanship will be repaired or replaced free of charge upon inspection by the company. Tools abused or worn out from excessive use will not be replaced.

**The easy way to
increase your tool sales**

K-D's BIG 8 DISPLAYS WITH COLOR-CODED PANELS

This is the easy way to speed up turnover and step up profits. 16 colorful panels containing over 240 fast-moving, self-selling tools. The whole unit takes up little more than a square yard of floor space. And K-D floor displays are also available as wall displays if you're pressed for space.

This one's a real traffic builder, guarantees impulse sales and makes each K-D tool buyer more diversified. And the more diversified he becomes, the more he buys of your entire parts line.

**To back up the BIG 8...
three great supporting programs**



POP DISPLAY



Displays 60 of the fastest-moving tools in the line. Takes up less space than the Big 8, but is just as colorful and exciting.

FOUR-STAR DISPLAY



Spotlights the hottest selling tools. Also available in 3-, 2-, and 1-star versions.

RAINBOW ASSORTMENT



Colored panels of "category tools"; battery tools on one, brake tools on another, cooling system tools on another, etc.

